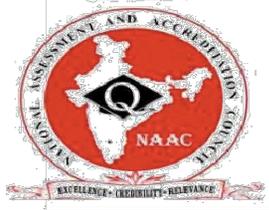


SELF STUDY REPORT

Submitted To



**NATIONAL ASSESSMENT AND ACCREDITATION
COUNCIL (NAAC)
Bangalore, India**

By



OmDayal Group of Institutions

38(P), 38(A), 39(P) & 39(A), Uluberia Industrial Growth Centre,
Uluberia, Howrah- 711316, West Bengal, www.oders.in



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Section - A

Preface

Institutions dedicated to higher learning evolve and grow. Like any life form, the early years are the most dynamic and challenging. It is also the most rewarding time. It defines the character of the institution. We are very fortunate as within 6 years we are being considered to be a center of learning par excellence. We have put in our best efforts in defining the scope and expanse of the kind and nature of academic courses we offer at OmDayal Group of Institutions.

As an institution of higher technical learning, we are fully aware of our obligations towards our stakeholders – students and parents, the industry, the policy makers and above all larger social community of which we are part of. Our need to remain relevant and contribute significantly to the society is of prime importance.

OmDayal Group of Institutions started its journey from the academic year 2010-11 under the aegis of OmDayal Educational & Research Society. OmDayal Group of Institutions is a self-financed institute, an integrated technical campus, engaged in imparting technical education, is approved by All India Council for Technical Education (AICTE), Council of Architecture (COA) and is affiliated to Maulana Abul Kalam Azad University of Technology (formerly West Bengal University of Technology). The institution started with an intake of 240 students in 4 branches of Engineering and 80 in-takes in Architecture.

OmDayal Group of Institutions is pleased to submit Self Study Report (SSR) for accreditation which is self-explanatory for quality inspection by which OmDayal Group of Institutions get accreditation. Being accredited the institution will get the chance to the stakeholder in a better way in future.

The SSR has been prepared as per the norms of National Assessment and Accreditation Council (NAAC).

Section – B

Executive Summary

OmDayal Group of Institutions is a self-financed institute, an integrated technical campus, engaged in imparting technical education, is approved by AICTE, and is affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal. About two decades ago, a group of enterprising socially responsible citizens from Kolkata got together and established OmDayal Education & Research Society, a non-governmental organization in education sector. Under the aegis of this society, in collaboration with Delhi Public School Society, Delhi Public School, Ruby Park, Kolkata was born in 2003. And in 2010, ODEERS set up OmDayal Group of Institutions – College of Engineering and Architecture at Uluberia, Howrah.

The campus is located about 40kms from the heart of Kolkata and is well connected by road and railway network. Students from the district of Howrah, where it is situated, as well as those from the neighboring districts can easily access the institution. In fact, 60 percent of the enrolled students are from the districts of Howrah, East Midnapore and 24 Parganas (North and South).

Starting with 15 students in Civil Engineering, Mechanical Engineering and Electronics and Communication Engineering, today the institution boasts of about 750 students in all the above disciplines plus Computer Science & Engineering and Architecture.

The faculty strength has also gone up from the initial days to a strength of more than 70 Professors, Associate and Assistant Professors for B.Tech & B. Arch Courses. They are adequately backed up by more than 40 instructional and non-teaching staff.

The institute offers B.Tech Degree courses in 4 disciplines i.e. Computer Science & Engineering, Electronics & Communication Engineering, Civil Engineering and Mechanical Engineering, in addition to B. Arch courses to meet the varied aspirations of the students. All these undergraduate programmes are approved by AICTE and affiliated to MAKAUT. The B.Arch courses are also accredited by Council of Architecture (COA).

The process of curriculum design, development, feedback/updates and academic flexibilities are governed by rules and regulations of affiliating university, MAKAUT. The Institute's involvement on such issues takes place with the university on need basis.

Student intake catering to the diverse needs and demography of population of West Bengal is governed by MAKAUT defined processes. The institute adheres to a stringent teaching learning and evaluation system as per the governing university's guidelines.

The institute is committed to maintain high standards of conducive academic environment, processes and procedures, quality of faculty members and technical infrastructure for effective learning and self-development. In a very short period, OmDayal Group of Institutions has made great strides – several students have been placed in reputed organizations, including Indian Navy, TCS, Amazon, Yodlee, Mphasis and Hero Motors.

OmDayal Group of Institutions believes that quality teaching by its faculty comes out from their in-depth knowledge base and quality of research outcomes. Accordingly we encourage and support faculty members to pursue higher studies, research and consultancy. Research work of exceptional standard /publications/ innovations etc. is also rewarded.

The Institute also lays great emphasis on community service to underprivileged /socially disadvantaged demography of the population, with the rural population being an important component of the institute's values of imparting education. As part of Corporate Social Responsibilities (CSR) the nearby villages are taken care of through the platform of NSS and local student bodies.

OmDayal Group of Institutions is spread over an area of 3.32 acres. The campus is well developed having latest facilities & modern amenities for imparting quality technical education in a partially residential setup. In-campus hostels are provided (for boys and girls) rooms, Wi-Fi connected with internet facility, TV room and indoor games. For hostellers, medical facility is provided.

Day students can avail of the Institute's buses running between campus and the city. Facilities like canteen, games and stationary facilities are provided.

The academic buildings are well equipped with adequate audio visual aided lecture class rooms, state-of-the-art laboratories and workshops, central computing facility, computer and language labs, central library, air conditioned seminar/conference halls, architecture museum etc. to facilitate conduct of courses in a befitting manner. The campus' IT infrastructure includes fully networked LAN based (around 350) computing systems backed by Internet connectivity and Wi-Fi.

The central and architecture library is a learning resource with more than 13,258 books of Indian and foreign authors with approximately 2686 titles. There are more than 40 journals of national and international editions including e-journals.

Training and Placement is of critical importance for a technical institute like OmDayal Group of Institutions. We have a Cell that is focused towards providing students the best guidance and assistance in choosing their career paths.

ODERS, being a leading name in the educational sphere of the region, has enabled OmDayal Group of Institutions to build a strong relationship with entrepreneurs, industrialists, educationists as well as several corporate houses and prestigious institutions.

SWOC ANALYSIS OF THE INSTITUTION

Strengths	1	Equal emphasis on co-curricular and value added programs on Emerging Technology
	2	High focus on building entrepreneurship development and employability skills
	3	Encouragement of faculty for research, advancement of qualification through liberal incentive policies
	4	Strong Intellectual Capital base
	5	Strong student feedback system
	6	Quality of work life leading to High faculty retention
	7	High and consistent academic achievements of students – University/GATE rank holders
	8	Strong Industrial linkage and MoU's with the Industry
	9	State of Art computing facilities / lab infrastructure / Internet Connectivity
	10	Active Hobby clubs of students in each department to encourage Innovation & to gain practical hands on experience
	11	Strong student mentoring/counselling system
	12	Technology Business Incubator
Weaknesses	1	Need more concentration on R&D and Consultancy
	2	Looking for more Ph.D. faculty in engineering
Opportunities	1	Faculty – student exchange programme with foreign universities
	2	Collaboration with Institutes of repute & foreign universities for student-faculty exchange program
	3	To increase Institute's visibility at National & International level
	4	Focus on International Research collaboration
	5	Student Internship programme at foreign university
	6	To get the status of Autonomous Institute
	7	Developing skill centre for vocational/ Advanced Skill/Research Centre in creation of more Centres of Excellence (CoE)
Challenges	1	Keeping pace with technological advancement
	2	To attract eminent researchers & academicians in Campus
	3	Domicile issue in the admission process

Section – C

PREPARATION OF SELF-STUDY REPORT

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name:	OmDayal Group of Institutions		
Address:	38(P), 38(A), 39(P) & 39(A), Uluberia Industrial Growth Centre, Uluberia, Howrah		
City: Howrah	Pin: 711316	State: West Bengal	
Website:	www.oders.in		

2. For Communication:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Prof. Satyendra Nath Chattopadhyay	O: 03326613179	9073965704	03326613366	principal@oders.in
Steering Committee Co-ordinator	Dr. Prosenjit Sen	O:03326613179	9733572334	03326613366	prosenjit.bagnan@gmail.com

3. Status of the Institution:

Affiliated College

Constituent College

Any other (specify)

4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. Co-education

b. By Shift

i. Regular

ii. Day

iii. Evening

5. Is it a recognized minority institution?

Yes

No

If yes specify the minority status (Religious/linguistic/any other) and provide documentary evidence.

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

7. a. Date of establishment of the college: 13/07/2010 (dd/mm/yyyy)

b. University to which the college is affiliated/or which governs the college (If it is a constituent college)

Maulana Abul Kalam Azad University of Technology

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i.2(f)	----	----
ii.12(B)	----	----

(Enclose the Certificate of recognition u/s2(f) and12(B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval Institution/Department Programme details	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	Approved by AICTE. F. No. Eastern/1-2811606890/2016/EOA	05/04/2016	2016-17	

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized?

a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition:.....(dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency.....and

Date of recognition :.....(dd/mm/yyyy)

10. Location of the campus and area in sq. mts:

Location*	Urban
Campus area in sq. mts.	13435.56 (3.32 acres)
Built up area in sq. mts.	5172.82

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities
- Sports facilities
 - * Play ground
 - * Swimming pool
 - * Gymnasium
- Hostel
 - * Boys' hostel
 - i. Number of hostels 1
 - ii. Number of inmates - 47
 - iii. Facilities (mention available facilities), Bed with side table, Almirah, Canteen, free Wi-Fi, Book bank, Play Ground, Indoor Games, Television
 - * Girls' hostel
 - i. Number of hostels - 1
 - ii. Number of inmates – 52
 - iii. Facilities (mention available facilities) Bed with side table, Almirah, Canteen, free Wi-Fi, Book bank, Play Ground, Indoor Games, Television
 - * Working women's hostel
 - i. Number of inmates N.A.
 - ii. Facilities (mention available facilities)
- Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise) No such facilities are there
- Cafeteria—
- Health center—

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance, Health center staff

Qualified doctor	Fulltime		Part-time	<input checked="" type="checkbox"/>
Qualified Nurse	Fulltime	<input checked="" type="checkbox"/>	Part-time	

Facilities like

- Banking
- Post Office
- Book shops
- Transport facilities to cater to the needs of students and staff
- Animal house
- Biological waste disposal
- Generator or other facility for management/regulation of electricity and voltage
- Solid waste management facility
- Waste water management
- Water harvesting

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student strength	No. of students admitted (2016-17)
1.	Under Graduate (Engineering & Technology)	i. B.Tech in Civil Engineering	4 years	10+2 / Diploma	English	60	12
		ii. B.Tech in Mechanical Engineering	4 years	10+2 / Diploma	English	60	12
		iii. B.Tech in Computer Science & Engineering	4 years	10+2 / Diploma	English	60	29
		iv. B.Tech in Electronics & Communication Engineering	4 years	10+2 / Diploma	English	60	12
2	Under Graduate (Architecture & Town Planning)	v. B. Arch in Architecture	5 years	10+2 / Diploma	English	40	38
		vi. B.Arch in General	5 years	10+2 / Diploma	English	40	37

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes	<input type="text"/>	No	<input checked="" type="checkbox"/>	Number	<input type="text"/>
-----	----------------------	----	-------------------------------------	--------	----------------------

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Engineering & Technology	Civil Engineering	B.Tech in CE	0	0
	Computer Science & Engineering	B. Tech in CSE		
	Electronics & Communication Engineering	B.Tech in ECE		
	Mechanical Engineering	B.Tech in ME		
Architecture & Town Planning	Architecture	B. Arch in Architecture	0	0
		B. Arch. in General		

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

a. annual system

b. semester system

- c. trimester system
17. Number of Programmes with
- a. Choice Based Credit System
- b. Inter/Multidisciplinary Approach
- c. Semester System
18. Does the college offer UG and/or PG programmes in Teacher Education?
- Yes No
- If yes,
- a. Year of Introduction of the programme(s).....(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No
Date: (dd/mm/yyyy)
Validity:.....
- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?
- Yes No
19. Does the college offer UG or PG programme in Physical Education?
- Yes No
- If yes,
- a. Year of Introduction of the programme (s).....(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No.:.....
Date:(dd/mm/yyyy)
Validity:.....
- c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?
- Yes No
20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F				
Sanctioned by the UGC/University/ State Government <i>Recruite</i>	4	0	7	3	41	16	38	5	12	1
<i>Yet to recruit</i>										
Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	4	0	7	3	41	16	38	5	12	1
<i>Yet to recruit</i>										

*M-Male*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	0	0	2	0	3	1	6
M.Phil.	0	0	0	0	0	1	1
PG	4	0	5	3	38	14	64

22. Number of Visiting Faculty/Guest Faculty engaged with the College.

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2016-17		2015-16		2014-15		2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	0	3	8	8	7	4	8	4
ST	0	0	1	0	0	1	0	0
OBC	0	0	23	2	18	3	12	2
General	88	37	99	55	82	48	95	43

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the college is located	619	0	0	0	619
Students from other states of India	32	0	0	0	32
NRI students	0	0	0	0	0
Foreign students	0	0	0	0	0
Total	651	0	0	0	651

25. Dropout rate in UG and PG (average of the last 2 batches)

UG PG

26. Unit Cost of Education

(Unit cost=total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

(b) excluding the salary component

27. Does the college offer any programs in distance education mode (DEP)?

Yes No

If yes,

a) is it a registered center for offering distance education programmes of another University

Yes No

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes

No

28. Provide Teacher-student ratio for each of the programme/course offered: 1:18

29. Is the college applying for Accreditation?

Cycle
1

Cycle
2

Cycle
3

Cycle
4

Re-
accreditation

(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refers to re-accreditation)

30. Date of accreditation*(applicable for Cycle2, Cycle3, Cycle4 and re-assessment only)

Cycle1:.....(dd/mm/yyyy)

Accreditation Outcome/Result.....Cycle2:(dd/mm/yyyy)

Accreditation Outcome/Result.....Cycle3:..... (dd/mm/yyyy)

Accreditation Outcome/Result.....

*Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

31. Number of working days during the last academic year. 254

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

204

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC
.....02.01.2017.....(dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i)(dd/mm/yyyy)

AQAR(ii).....(dd/mm/yyyy)

AQAR(iii).....(dd/mm/yyyy)

AQAR (iv)(dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

Safety Facility : Facility for Fire fighting

Fire Fighting : Water Pipes are installed in various Parts of building

Section – D
CRITERIA-WISE EVALUATION REPORT

Criterion – I
Curriculum Aspects

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision

To become an institute of repute and bring about a change in the sphere of technical education in Bengal by offering a full range of programmes of global standard, and to transform the students into globally competent personalities.

Mission

- To provide state-of-the-art resource required to achieve excellence in teaching-learning and supplementary processes.
- To provide faculty and staff with the required qualification.
- To motivate for their holistic development.
- To provide opportunity to the students to bring out their inherent talent.

Objective

The main objective of the Institution is to transform the students into well-meaning citizens in the form of a rich corpus of talent through the committed pattern of instructions based on carefully prepared and well-designed curricular aspects as per the changing needs of the time.

Communication to Stakeholders

- The Advisory Committee and Academic Committee are two main important academic bodies of the institution. The meetings are held frequently which plan programmes and discuss key issues in tune with the vision and mission of the institution. Decisions taken in the advisory committee and the staff council are communicated properly to the students and faculty through meetings and student interface.

The following criterion is followed to communicate the vision, mission and objectives of the college to the stakeholders:

- Vision and mission are communicated to students, teachers, staff and other stakeholders through wall posters, through staff meetings, Institute's prospectus and magazine and during the orientation programs.
- The institute's vision & mission statements are displayed at all the important places of the campus as well as on the web site of the institute.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

As our Institute is affiliated to MAKAUT, we follow the model syllabus throughout the courses. We follow the academic calendar provided by the University. For the effective implementation of the curriculum, deployment of action plans are done in the following ways:

- At the beginning of the semester we prepare Objective Driven Teaching plan.
- Special lectures are conducted by inviting distinguished personalities from different reputed Universities/Institutes and Industries.
- Each member of the department is attached to Mentorship programme. Each member of the teaching faculty is entrusted with the task of mentoring 10 to 15 students.
- They are responsible for the academic and personal mentoring. This is to strengthen the bonds of appreciation and affection that exists between teachers and students.
- Subjects are allocated to the faculty on the basis of the options selected by them given at the beginning of each semester.
- At the beginning of each Semester, meetings are held regularly with the Heads of Departments to develop various strategies for effective implementation of the curriculum.
- The college prepares semester plan which consists of the commencement date and last working date, dates for conduction of the internal assessment tests.

- Department-wise calendar of events is prepared. Thereafter, the faculty members of various departments conduct their internal meetings and develop academic plans such as time-tables, lesson plans, and course files for the new academic semester.
- Apart from the regular classes further reinforcement is provided through case study/presentation, guest lectures/workshops to enhance the capability of students in presenting the topics related to the curriculum.
- Identification of academically weak students and conducting remedial classes so as to raise their academic performance.
- Identification of above-average students and motivating them towards excelling in their academic performance.
- Industrial visits are arranged for the students to be familiar with the industry process as part of the curriculum and to relate the theoretical knowledge to real life.
- All the departments and staff members prepare a lesson plan for each subject and follow it rigorously. Consequently a follow-up is done regularly.
- Each faculty member has to prepare and document the study material, handouts and notes on lesson which are distributed to the students time to time for their academic preparation.
- After the completion of the lesson, assignments are given to the students based on their syllabus to enrich and evaluate the knowledge of the students.
- For each semester, two Internal Unit Tests are conducted for the students which enable them to assess their levels and accordingly make improvements.
- Feedback is collected from the students about their understanding of the lessons delivered by teachers who are advised to comply with.
- NPTEL study materials, learning resources in the form of e-journals and educational CDs are made available to students as reference materials in the Central library of the institute.
- Students are motivated to publish papers in e-magazine.
- Teachers are encouraged to present papers and participate in National and International conferences with duty- leave and financial support.

1. <u>Departmental Calendar</u>	2. <u>Departmental Work Allocation</u>																				
<p style="text-align: center;"><u>Departmental Calendar of B.Tech in CSE for 2016-2017 (Even Semester)</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Even Semester</th> <th style="text-align: right;">All Batches</th> </tr> </thead> <tbody> <tr> <td>1 Academic Programme commences</td> <td style="text-align: right;">February 2, 2017</td> </tr> <tr> <td>2 First Test Slot</td> <td style="text-align: right;">March 25 to March 28, 2017</td> </tr> <tr> <td>3 Workshop on PHP (2nd, 3rd, 4th Year)</td> <td style="text-align: right;">April 25 to April 29, 2017</td> </tr> <tr> <td>4 Second Test Slot</td> <td style="text-align: right;">May 13 to May 18, 2017</td> </tr> <tr> <td>5 Final Year Project Presentation</td> <td style="text-align: right;">May 25, 2017</td> </tr> <tr> <td>6 3rd Year Seminar Presentation</td> <td style="text-align: right;">May 28, 2017</td> </tr> <tr> <td>7(a) Practical Examinations & Viva-Voce</td> <td style="text-align: right;">May 25 to June 2, 2017</td> </tr> <tr> <td>7(b) Theory Examinations</td> <td style="text-align: right;">June 7 to June 25, 2017</td> </tr> <tr> <td>8 Inter Semester Break (Summer)</td> <td style="text-align: right;">June 26 to July 25, 2017</td> </tr> </tbody> </table> <p style="text-align: center;">During Inter-Semester-Break Industrial Training of 3rd Year will be arranged</p> <p style="text-align: center;">  Dipankar Hazra, TIC (Department of CSE) </p> <p style="text-align: center;">  </p>	Even Semester	All Batches	1 Academic Programme commences	February 2, 2017	2 First Test Slot	March 25 to March 28, 2017	3 Workshop on PHP (2 nd , 3 rd , 4 th Year)	April 25 to April 29, 2017	4 Second Test Slot	May 13 to May 18, 2017	5 Final Year Project Presentation	May 25, 2017	6 3 rd Year Seminar Presentation	May 28, 2017	7(a) Practical Examinations & Viva-Voce	May 25 to June 2, 2017	7(b) Theory Examinations	June 7 to June 25, 2017	8 Inter Semester Break (Summer)	June 26 to July 25, 2017	<p style="text-align: center;"> OmDayal Group of Institutions Department of CSE Work allocation during Odd Semester, 2016-17 </p> <ol style="list-style-type: none"> 1. Prof. Dipankar Hazra- Teacher-In-Charge. 2. Prof. Saikat Palhari- Coordinate with Training & Placement cell. 3. Prof. Surenendu Chattaraj- Project & Seminar. 4. Prof. Sandip De- Research & Development. 5. Prof. Dhrubajyoti Ghosh- Students welfare, NPTEL, Library. 6. Prof. Subhejit Roy- Lab-development. 7. Prof. Bhabani Sen- Exam related activities, Lab Manual Preparation. 8. Ms. Kusumika De- Lab Manual, Stock Register Preparation. <p style="text-align: center;">  Dipankar Hazra, Teacher-In-Charge, (Department of CSE) </p> <p style="text-align: center;">  </p>
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3. Time Table

OmDayal Group of Institutions Computer(Sem-1)									
	1 10:00 - 10:45	2 10:45 - 11:30	3 11:30 - 12:15	4 12:15 - 13:00	5 13:00 - 13:30	6 13:30 - 14:15	7 14:15 - 15:00	8 15:00 - 15:45	9 15:45 - 16:20
Tue	Workshop	Workshop.I		Math.I		Library	X.Curricular.I	Eng.1st	
Wed	Math.I	B.Electronics	Phy.I	Library	Engg.Mech.Tu	ME Tutorial	ELEC Tutorial	Student Counselling	
Thu	Phy.I	PHY Tutorial	Library	Engg.Mech.Tu	Lang.1st.Lab	Math.I	Sports		
Fri	Phy.Lab.1	Library	B.Electrical	ECE_PG	Eng.1st	B.Elec.1st.Lab			
Sat	Phy.Lab.1	Phy.Lab	Phy.I	MATH Tutorial	MATH Tutorial	B.Electrical	Library		

OmDayal Group of Institutions Computer(Sem-3)									
	1 10:00 - 10:45	2 10:45 - 11:30	3 11:30 - 12:15	4 12:15 - 13:00	5 13:00 - 13:30	6 13:30 - 14:15	7 14:15 - 15:00	8 15:00 - 15:45	9 15:45 - 16:20
Tue	Basic.Env	V&E.3rd	Library	Comp.Org		Data.Struc.Lab		Student Counselling	
Wed	Basic.Env	Comp.Orga.Lab			Phy.II	Comp.Org	Library	RC	
Thu	Data.Struc.Algo Tutorial	Basic.Env	Phy.II	PHY-2 Tutorial	NP/Summer Soft Skill	Comp.Org Tutorial	Data.Struc.Algo	Sports	
Fri	Phy.Lab.2	Physics.II.Lab		Basic.Env		Data.Struc.Algo	V&E.3rd	Comp.Org	Phy.II
Sat	Analog Digital	V&E.3rd	Data.Struc.Algo		Analog Digital		Analog Digital.1st.Lab		

4. Sample Lesson Plan

Sl. No.	Topic of the Lesson	Duration	Objectives	Resources	Activities	Assessment
1	Introduction to C++	45 min	Understand the basic syntax of C++	Textbook, Compiler	Practical exercises	Quiz
2	Variables and Data Types	45 min	Declare and use variables of different data types	Textbook, Compiler	Practical exercises	Quiz
3	Arithmetic Operators	45 min	Perform arithmetic operations on variables	Textbook, Compiler	Practical exercises	Quiz
4	Relational Operators	45 min	Use relational operators to compare values	Textbook, Compiler	Practical exercises	Quiz
5	Logical Operators	45 min	Use logical operators to combine conditions	Textbook, Compiler	Practical exercises	Quiz
6	Control Flow: if, if-else, switch	45 min	Control the flow of execution based on conditions	Textbook, Compiler	Practical exercises	Quiz
7	Loops: for, while, do-while	45 min	Repeat a block of code multiple times	Textbook, Compiler	Practical exercises	Quiz
8	Arrays	45 min	Store and access multiple values of the same data type	Textbook, Compiler	Practical exercises	Quiz
9	Strings	45 min	Store and manipulate text data	Textbook, Compiler	Practical exercises	Quiz
10	Functions	45 min	Organize code into reusable blocks	Textbook, Compiler	Practical exercises	Quiz
11	Pointers	45 min	Store and access memory addresses	Textbook, Compiler	Practical exercises	Quiz
12	Structures	45 min	Group related data into a single entity	Textbook, Compiler	Practical exercises	Quiz
13	Unions	45 min	Store different data types in the same memory location	Textbook, Compiler	Practical exercises	Quiz
14	Enumerations	45 min	Define a set of named integer constants	Textbook, Compiler	Practical exercises	Quiz
15	File Handling	45 min	Read and write data to and from files	Textbook, Compiler	Practical exercises	Quiz
16	Exception Handling	45 min	Handle runtime errors gracefully	Textbook, Compiler	Practical exercises	Quiz
17	Namespaces	45 min	Organize code into logical groups	Textbook, Compiler	Practical exercises	Quiz
18	STL (Standard Template Library)	45 min	Use pre-defined data structures and algorithms	Textbook, Compiler	Practical exercises	Quiz
19	Templates	45 min	Write generic code that works with different data types	Textbook, Compiler	Practical exercises	Quiz
20	Lambda Expressions	45 min	Use anonymous functions	Textbook, Compiler	Practical exercises	Quiz
21	Move Semantics	45 min	Manage memory more efficiently	Textbook, Compiler	Practical exercises	Quiz
22	Smart Pointers	45 min	Manage memory automatically	Textbook, Compiler	Practical exercises	Quiz
23	Atomic Operations	45 min	Perform thread-safe operations	Textbook, Compiler	Practical exercises	Quiz
24	Thread Local Storage	45 min	Store data that is unique to each thread	Textbook, Compiler	Practical exercises	Quiz
25	Atomic Reference Counting	45 min	Manage memory in multi-threaded environments	Textbook, Compiler	Practical exercises	Quiz
26	Atomic Fetch-and-Add	45 min	Perform atomic arithmetic operations	Textbook, Compiler	Practical exercises	Quiz
27	Atomic Compare-and-Swap	45 min	Perform atomic comparison and swap operations	Textbook, Compiler	Practical exercises	Quiz
28	Atomic Exchange	45 min	Perform atomic swap operations	Textbook, Compiler	Practical exercises	Quiz
29	Atomic Store-Release	45 min	Perform atomic store and release operations	Textbook, Compiler	Practical exercises	Quiz
30	Atomic Load-Store	45 min	Perform atomic load and store operations	Textbook, Compiler	Practical exercises	Quiz
31	Atomic Memory Order	45 min	Control the order of memory operations	Textbook, Compiler	Practical exercises	Quiz
32	Atomic Memory Barrier	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
33	Atomic Memory Fence	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
34	Atomic Memory Barrier	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
35	Atomic Memory Fence	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
36	Atomic Memory Barrier	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
37	Atomic Memory Fence	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
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39	Atomic Memory Fence	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz
40	Atomic Memory Barrier	45 min	Ensure that all memory operations are completed	Textbook, Compiler	Practical exercises	Quiz

5. Evidence of feedback from direct (student, faculty).

 <p>Student's Feedback Form Name: <i>Shruti</i> Course: <i>CE</i> Date: <i>18/12/17</i> Programme Name: <i>B.Tech</i> Faculty Name: <i>Dr. Dipankar Hazra</i> In-charge: <i>Dr. Dipankar Hazra</i> Date: <i>18/12/17</i> Branch: <i>CE</i> Institute: <i>OmDayal Group of Institutions</i> Department: <i>Computer Engineering</i></p> <p>Section A</p> <table border="1"> <thead> <tr> <th>Sl. 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How do you rate the quality of the feedback? <i>Very good</i></p> <p>2. How do you rate the quality of the feedback? <i>Very good</i></p> <p>3. How do you rate the quality of the feedback? <i>Very good</i></p> <p>4. How do you rate the quality of the feedback? <i>Very good</i></p>	Sl. No.	Point	Very Poor	Poor	Moderate	Good	Excellent	1	Faculty is very knowledgeable and capable of providing quality teaching				<input checked="" type="checkbox"/>		2	Faculty is very friendly and approachable				<input checked="" type="checkbox"/>		3	Faculty is very professional and capable				<input checked="" type="checkbox"/>		4	Faculty is very punctual and organized				<input checked="" type="checkbox"/>		5	Faculty is very motivated and energetic				<input checked="" type="checkbox"/>		6	Faculty is very fair and just				<input checked="" type="checkbox"/>		7	Faculty is very honest and sincere				<input checked="" type="checkbox"/>		8	Faculty is very caring and supportive				<input checked="" type="checkbox"/>		Sl. No.	Point	Yes	No	No Comment	1	Faculty is very approachable and friendly	<input checked="" type="checkbox"/>			2	Faculty is very professional and capable	<input checked="" type="checkbox"/>			3	Faculty is very punctual and organized	<input checked="" type="checkbox"/>			4	Faculty is very motivated and energetic	<input checked="" type="checkbox"/>			5	Faculty is very fair and just	<input checked="" type="checkbox"/>			6	Faculty is very honest and sincere	<input checked="" type="checkbox"/>			<p align="center">OmDayal Group of Institutions FACULTY FEEDBACK FORM</p> <p>1. How positive are your interactions with other members of your department? <input checked="" type="checkbox"/> Extremely positive <input type="checkbox"/> Very positive <input type="checkbox"/> Moderately positive <input type="checkbox"/> Slightly positive <input type="checkbox"/> Not at all positive</p> <p>2. How effective is the leadership of your department chair? <input checked="" type="checkbox"/> Extremely effective <input type="checkbox"/> Very effective <input type="checkbox"/> Moderately effective <input type="checkbox"/> Slightly effective <input type="checkbox"/> Not at all effective</p> <p>3. How much do you feel your department chair values your input in making decisions? <input checked="" type="checkbox"/> A great deal <input type="checkbox"/> A lot <input type="checkbox"/> A moderate amount <input type="checkbox"/> A little <input type="checkbox"/> None at all</p> <p>4. How effectively do you feel your talents are being used by your department? <input checked="" type="checkbox"/> Extremely effectively <input type="checkbox"/> Very effectively <input type="checkbox"/> Moderately effectively <input type="checkbox"/> Slightly effectively <input type="checkbox"/> Not at all effectively</p> <p>5. How useful is the feedback the principal at this institution gives you? <input checked="" type="checkbox"/> Extremely useful <input type="checkbox"/> Very useful <input type="checkbox"/> Moderately useful <input type="checkbox"/> Slightly useful <input type="checkbox"/> Not at all useful</p> <p>6. How much support does the administration at this institution give to the teaching staff? <input checked="" type="checkbox"/> A great deal <input type="checkbox"/> A lot <input type="checkbox"/> A moderate amount <input type="checkbox"/> A little <input type="checkbox"/> None at all</p>
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6. Departmental subject allocation

OmDayal Group of Institutions
Department of CSE
Subject allocation for 2016-17 Even Semester

Name	Sub Code	Subject Name	Dept	Sem
Mr. Dipankar Hazra	CS892	Project-2	CSE	8 th
	CS601	Database Management System	CSE	6 th
	CS691	Database Management System Lab	CSE	6 th
	CS402	Formal Language & Automata Theory	CSE	4 th
Mr. Saikat Palhari	CS493	Computer Architecture Lab	CSE	4 th
	CS891	Design Lab	CSE	8 th
	CS892	Project-2	CSE	8 th
	CS602	Computer Network	CSE	6 th
Dr. Sourendu Chatteraj	CS692	Computer Network Lab	CSE	6 th
	CS403	Computer Architecture	CSE	4 th
	CS892	Project-2	CSE	8 th
	CS603	Operating System	CSE	6 th
Mr. Sandip De	CS693	Operating System Lab	CSE	6 th
	CS201	Basic Computation and Principles of Computer Programming	CSE	2 nd
	CS291	Basic Computation and Principles of Computer Programming Lab	CSE	2 nd
Mr. Sandip De	CS201	Basic Computation and Principles of Computer Programming	CE	2 nd
	CS291	Basic Computation and Principles of Computer Programming Lab	CE	2 nd
	CS604B	Computer Graphics	CSE	6 th

Dipankar Hazra 07.08.17
 Dipankar Hazra
 Teacher-in-Charge
 (Department of CSE)



1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and / or institution) for effectively translating the curriculum and improving teaching practices?

The curriculum prepared by the Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal formerly known as West Bengal University of Technology (WBUT) to which the Institute is affiliated, is well transacted to the students after serious preparation as well as critical analysis by the teachers concerned.

For effective translation of the curriculum and improving teaching practices following support system is provided to the Faculty:

- Use of modern teaching aids (e.g. LCD-projector, smart classes, Language Laboratory software) for conducting classes smoothly.
- Participating in various Faculty Development Programs, Workshops, Seminars, Conference to enrich their knowledge.
- Involvement of faculty members in workshops/meetings for modification of curriculum undertaken by MAKAUT..

We are always in tune with the latest trends in education and guidelines. The Institute provides number of books and other e-resources through its library for teaching and reference materials which help the teachers to ensure effective delivery of curriculum. NPTEL, online journals are provided according to AICTE norms.

Followings are the efforts made by the Institution to enrich and organize the curriculum to enhance the experience of the students so as to cope with the needs of the dynamic employment market:

- Within the curriculum, the lecture and laboratory infrastructure are enriched to enhance the experiences of the students so as to cope with the needs of the dynamic fast changing employment market.
- Efforts are taken to encourage the students to attend tutorials offered, especially to weaker students.
- Special classes are arranged for Aptitude test, GD, PI, English Communication Language and technical papers by the concerned department.
- Organizing and participating seminar/workshop/symposium to know about new technologies and their applications.
- Industrial visits to realize the functionality of new technologies or applied technologies.
- The students are encouraged to learn to use the modern tools and software

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

Institution contribution for effective curriculum delivery:

- Provides classrooms, tutorial rooms, workshops and laboratory Infrastructure as per the norms of MAKAUT and AICTE.
- All types of major and minor equipment with software are made available as per curriculum.
- LCD projectors with audio system are provided.
- Arrangements are made for regular visits from expert Guest lecturers.
- Video lectures are made available to the students from NPTEL (<http://www.nptel.iitm.ac.in>)
- Students are sent to various companies for vocational training.
- Students are motivated for doing research work and publication of papers in different Seminars, Conferences / journals and are encouraged to do innovative project work.
- Students are also encouraged to participate in various technical events/ competitions conducted intra-college and inter-college level.
- Ensuring appropriate staff training and development.
- Encouraging faculties to evaluate their own learning and teaching practice.
- Encouraging innovation in learning and teaching – planning how practice can be shared amongst faculty members.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

Industry:

Faculty are in close touch with industry by inviting them for various seminars, workshops. They also come regularly for selection of prospective trainee engineers for their organization. Students and faculty members are exposed to industry through various industrial visits.

University:

Academic calendar:

For effective implementation of the University guidelines so far as curriculum is concerned, an academic calendar is prepared in tune with the calendar published by the University. Every effort is made to ensure that academic days are not lost due to spill over off days at the time of festivals, college functions, sports etc.

Curriculum monitoring:

Continuous monthly monitoring is undertaken by the HODs/TICs to see whether the curriculum is being implemented by the faculty members as per the University guide lines and standards.

Examinations: Internal / External:

Internal Examinations are conducted twice per Semester as per the schedule provided by the University. Every endeavor is made to check whether the exams cover the specific syllabus or not.

Research Bodies:

Researchers from different R&D departments of different organizations are invited for interaction with the faculty members to make them aware of how new research work can be incorporated to upgrade our teaching process.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (number of staff members / departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)

ODGI faculties have representative as asked by the University to be a member of the Board of Studies. Our representative suggests based on our faculty recommendation changes/updation of the curriculum and, at least, partially our suggestions are accepted by the University and modification of curriculum takes place.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process (Needs Assessment, design, development and planning) and the courses for which the curriculum has been developed.

No.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

All faculty have 'Lecture Diary' which is maintained by teachers for each course. The Principal/HODs periodically inspects the 'Lecture Diary' to understand the progress in each course and suggests improvements, if required. If necessary, extra classes are suggested to complete the course work/ lab/workshop. Students' feedback for any shortcomings in course progression in both qualitative and quantitative is also considered.

1. Feedback form

Student's Feedback Form

Sem: 5th Course: CE Date: 18/3/17

Programme Name: B.TECH
 Faculty Name: Giducham Bondhopadhyaya
 Subject Taught: Concrete Technology
 Course Code: CE503
 Batch: 2014-18
 Student's COPM Marks %: 8.08
 Percentage of classes attended: 80%

Dear Student,
 You are requested to give your frank and objective opinion about the teaching of faculty on under mentioned points. It will help us to improve and maintain the quality of teaching. Your response will be kept confidential. Rank each point on a five point scale. Enter responses by filling 1 (one) for selecting the option and 0 (zero) for rest of the options.

Section A

S. No.	Points	Very Poor	Poor	Average	Good	Excellent
1	Ability to bring conceptual clarity and promotion of thinking ability by teacher				✓	
2	Motivation provided					✓
3	Teachers Communication Skill					✓
4	Teacher's Regularity and Punctuality					✓
5	Teacher's Subject Knowledge					✓
6	Completion and Coverage of course					✓
7	Completeness theory with practical example					✓
8	Teacher interaction and guidance outside of the class				✓	
9	Teacher's computer /IT skills, if applicable					✓
10	Teacher's overall performance					✓
		0	0			

Section B

S.No.	Points	Yes	No	No Comments
1	Results of test declared within 2 weeks of it being conducted	✓		
2	Adoptable number of assignments and cases given	✓		
3	Would you recommend further to teach the same subject to your juniors	✓		
4	Would you recommend further to teach you any other subject	✓		
5	In your opinion is the syllabus adequate	✓		
		0	0	

Section C

a. What are the strengths of the teacher?
Ability of teaching and his help to solve the problem. He can motivate easily and clear our concepts easily.

b. What are the areas of weaknesses in teacher?
N.A.

c. Any other suggestion (regarding curriculum, subject(s), faculty)
N.A.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

The college is putting its all-out efforts to be the pioneer in professional education. Hence it develops curricula which addresses the needs of society and are in line with and reflect the institution's goal to empower students through quality education. The college offers the following value-added courses but is not offering any certificate programs by itself.

The Institution has carefully designed the following training programs for the benefit of all the students in keeping with the industry requirements:

- Personality development
- Soft skills
- Language skills
- Domain knowledge development
- Branch specific Application packages such as Auto Cad, Staad.pro, ProE, Ansys, C-coding, Web technologies, Cloud computing, Ethical hacking, etc.,

1.2.2 Does the institution offer programs that facilitate twinning /dual degree? If 'yes',give details.

No

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to student in terms of skills development, academic mobility, and progression to higher studies and improved potential for employability.

Issues may cover the following and beyond:

a. Core / Elective options.

Elective options are there, as per University curriculum we offer elective subject in pre-final and final year level. Nearly 30% of the subjects are given as Electives from V Semester to VIII Semester for Under Graduate students. Core subjects are offered in all semesters.

b. Enrichment courses Enrichment of courses with additional relevant short term courses, seminars and workshops are done.

c. Courses offered in modular form

Almost all the courses / syllabi are in modular form with credit system of study.

d. Choice Based Credit System and Credit transfer /accumulation facility

As per affiliating University norms, no provisions are there.

FDP courses



FDP Courses attended by Faculty

Arrangement of in-house seminars and Student certifications

	
In-House Seminar	Certification

1.2.4 Does the institution offer self-financed programmes? If yes, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

Yes, all the programmes offered by the institution are self-financed programmes. The college is a self-financing institution, recognized by the Government of West Bengal, approved by AICTE and affiliated to MAKAUT.

Admissions:

Admissions are done on the merit as per guidelines prescribed by the statutory bodies like AICTE, MAKAUT and Director of Technical Education, Government of West Bengal. The state government through the State Higher Education Council conducts common entrance examinations for admitting students to UG courses.

Curriculum:

The college follows the curriculum designed by the affiliating University, and implemented through a systematic plan of action which includes semester plan, lesson plan, course file, assignments, internal assessment, test schedule. The faculty members are encouraged to use different instructional aids like LCD projectors, Computer and audio equipment for effective planning, implementation and delivery of the curriculum.

Fee Structure:

The fee structure is as decided by State Fee Regulatory Commission and University.

Teacher's Qualifications:

As per AICTE/MAKAUT norms and regulations.

Salary:

The AICTE qualification is mandatory for teachers. They are duly approved/ ratified by the MAKAUT and the State Government. The Assistant Professors, Associate Professors and Professors are offered AICTE pay scale.

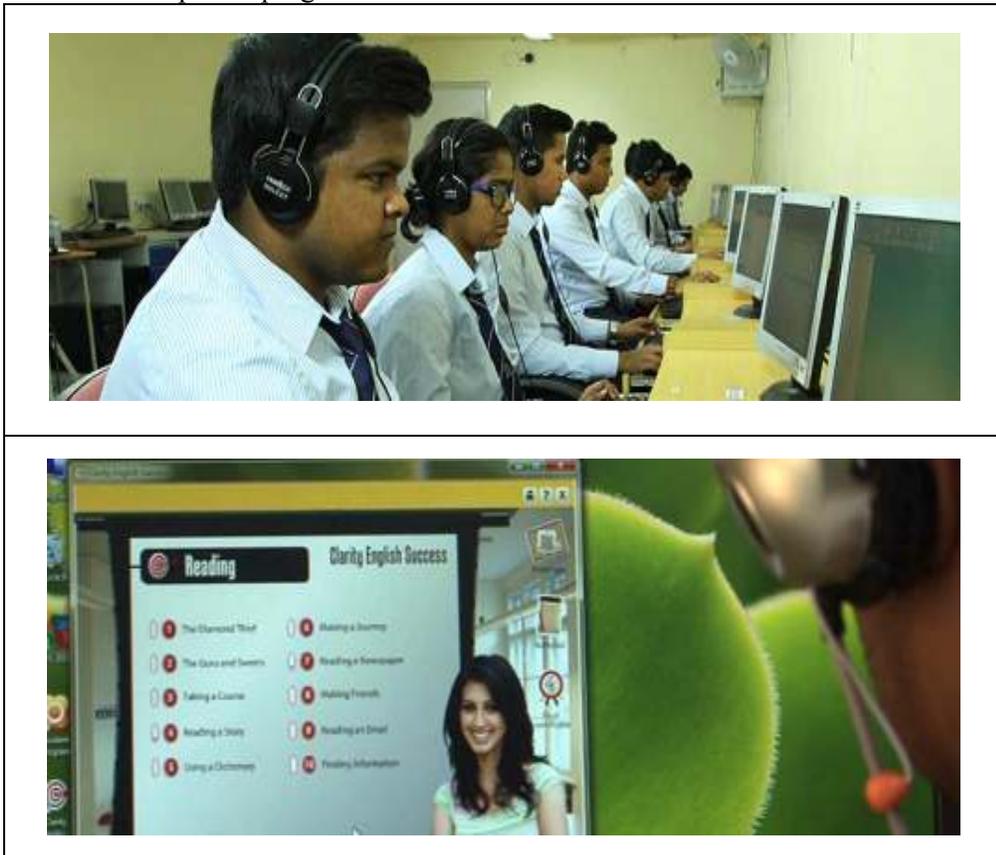
1.2.5 Does the college provide additional skill oriented programs, relevant to regional and global employment markets? If ‘yes’ provide details of such programs and the beneficiaries:

Yes, the College provides additional skill oriented programmes.

- Skill oriented courses are offered by the institution that helps students in preparing them towards job opportunities such as Oracle -WDP certification, JAVA certification courses, Intel Embedded systems Certification; AutoCAD, STAAD Certifications etc.,
- Soft skills have been introduced in the curriculum by the incorporation of the Student Development classes in the time table.
- ORELL software Language Lab have been introduced in the regular curriculum to hone the communication skills of the students.

Entry into Services:

- Placement cell plays an important role in developing the students to excel themselves in this competitive world. Placement cell gives Soft skill training such as Personality Development, Interview techniques, Pre Interview Preparation, Group Discussion, Aptitude classes etc which gives them the required impetus to acquire corporate skills and become more employable.
- Indian Civil Services: Orientation for entering into the Defence services is given to students through Seminars by inviting important Defence Personnel.
- Entrepreneurship Awareness Camp is held to orient students towards becoming Entrepreneurs. In these programmes Entrepreneurs are invited to give talks to students about their prospects
- Soft Skill Development programs



- Technical Skill Development programs.



- Seminar/Conference/Workshop - at least one in a year per program.



- Participation in external seminar / conferences - at least one in a year



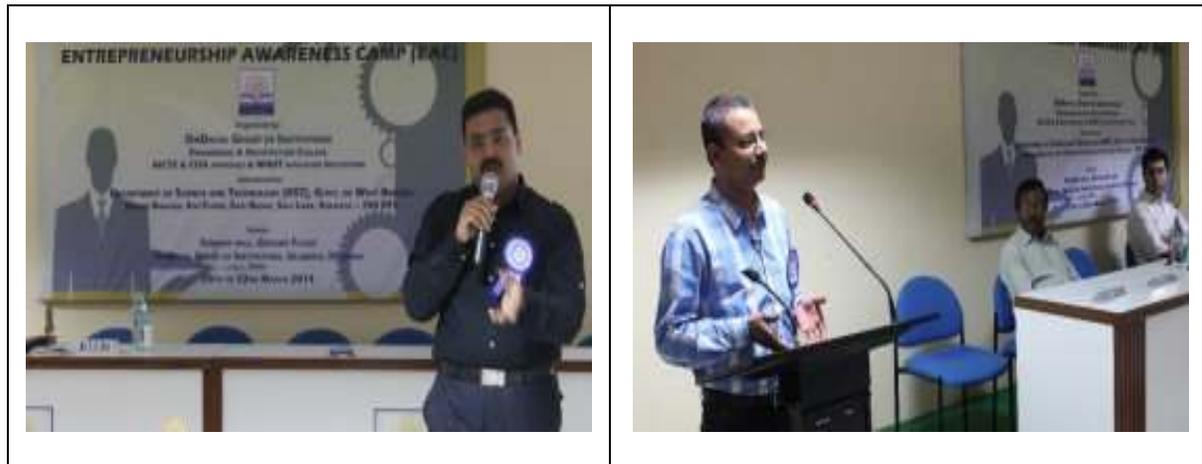
- Participation in external Tech fest / Tech quiz- at least one in a year



Organization of Seminar / Conference / Workshop- at least one in a year



- Entrepreneurship Awareness camp- at least once in a year



1.2.6 Does the University provide for the flexibility of combining the conventional face to face and Distance Mode of Education for students to choose the courses/ combination of their choice? If 'yes', how does the institution take advantage of such provision for the benefit of students?

No. Since the institution is affiliated to the affiliating university, there is no provision for flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The institution ensures that as per the University curriculum, all the faculty members prepare the lesson notes and lesson plans to ensure effective, time bound and result oriented completion of the course. The following supplementary provisions have been made at the institute to ensure that the academic programmes, Institution's goals and objectives are achieved in an integrated manner and to fill gaps in the curriculum the following steps are undertaken:

- ✓ Continuous monitoring of students' progress.
- ✓ Providing guidance to the weak students through remedial coaching.
- ✓ Encouraging faculty members for higher studies and research.
- ✓ Planning of Curricular Calendar Maps to achieve greater integration of instruction and make lesson planning more effective. .
- ✓ E-learning for regular classes and video lectures by expert faculty.
- ✓ Provision for gaining E-knowledge through e-resources, course materials, questions and keys etc.
- ✓ Conducting student development classes for the students to meet the industry requirements and placement.
- ✓ Providing value addition to education system through Community Service programs.
- ✓ State-of-the art infrastructure.
- ✓ Spacious library with good collection of books, journals, magazines, internet facility and e-resources.
- ✓ Creating a good ambience of teaching and learning process.
- ✓ Effective Training and Placement cell.
- ✓ Nurturing holistic personality development by organizing the programmes on Technical sessions, Soft Skills, Personality Development programmes etc.
- ✓ Discipline in conducting the University examinations.
- ✓ Transparency in evaluation system.
- ✓ Organizing regular academic, curricular, co-curricular and extracurricular activities to attract the students for awareness.



Community Development under NSS Programme



Technical sessions



Soft Skills



Personality Development programmes

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

ODGI are strictly bound to follow the syllabus suggested by West Bengal University of Technology.

- Still to make the student employable our college arranges special aptitude and Training classes for the final year students.
- Personality development classes are also arranged for the students of our institution to evoke a unique personality from them and to improve their communication skills, imbibe confidence and smartness, gestures behaviors etc.
- Employer's feedback: The training and placement cells of our college make communications with the HRs of the reputed organizations to collect the updated information about the recent market trends and corporate expectations so that students can be molded according to the current needs of organizations.
- Organizes the campus connect program in collaboration with TCS so that students can map their theoretical knowledge into practical implementation.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

Gender.

1. Girls and Boys are encouraged to work together in various academic, co-curricular, extra- curricular activities of the College.
2. No discrimination is made while selecting members for each committee. This holistic approach has led to increased opportunities in employment and developing entrepreneurial acumen.

Climate:

- The Institute regularly conducts Go Green Activities among the students with regular interface with the adjoining villages about the impact of climatic changes
- Swachh Bharat programme and different initiatives as mentioned by the MHRD was organised in our college.
- Various activities and quizzes are held on Climate, Environment and other Social issues to understand the importance of saving the environment.

Environmental Education:

There is a full credit course which is compulsory in the B.Tech syllabus. Students participate in various co-curricular activities such as paper presentations, Technical quiz, Project Expo, Poster Presentation Programs. Both boys and girls are made members of various academic, co-curricular and extra-curricular activities. They are also encouraged to participate in intercollege Fest, Technical competitions etc.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students? (moral and ethical values, employable and life skills, better career options, community orientation)

Moral and Ethical values:

In tune with our Indian Constitution of Unity in diversity, we have students from diverse religious and socio-economic backgrounds living in harmony in the college environment. Fostering of such human values, national ethos, social sensitivity is highlighted through the various programmes that our Institute organizes.

- Programmes like Vishakarma Puja, Teacher's Day, NSS Camp, Rainwater Harvesting, Saraswati Puja are held to instil community feelings.

Employable and Life Skills:

- Keeping in view the needs of the global demands of the corporate world personality development and grooming classes are held for the students to acquire corporate skills
- To face the ever-increasing competitive world students are made campus ready through GDs, mock interviews, soft skills.
- External agencies like CoCubes, AMCAT, Ardent provide the necessary technical grooming for our students

Better Career Options

- An Entrepreneurship Development Cell has been constituted with the vision of developing alternative and independent career options
- Skill enhancement is done through external agencies like CoCubes, AMCAT, Ardent such as: Oracle, Pro-E, JAVA certification courses, Embedded systems Certification, AutoCAD, 3D Imaging, Staad Pro etc

Community Orientation

Every endeavour is made to instil the community and brotherhood feelings amongst the students through various programmes like,

- Constitution Day was observed in 2015 in the form of a lecture session delivered by Professor Sudipta Sanyal, Head of Political Science Department, Rammohan College, Kolkata. Mock Parliament was held to make the students aware of the Constitution
- Swachh Bharat Abhiyan was observed on 26.01.2017 through activities like cleaning the surroundings and competitions were organized.
- Tree Plantation programme was undertaken on 23.01.2017 whereby saplings were planted.
- An awareness programme on Road Safety (a Howrah Police initiative) was organised in the college on 24.03.17.

A Seminar was organised by the Indian Army Officers to brief the participants on the workings of the Indian Army and the opportunities it provided.

Photos regarding Independence Day celebration, Republic Day celebration, etc.



Photos regarding Women Awareness & Hygiene Awareness Camp



Photos regarding the courses taught like JAVA, .NET, VLSI, CAD, CAM, PRO-E, ANSYS and CATIA



Photos regarding the Industry visit, training/placement etc.



Photos regarding regarding the seminar on Swachh Bharat Abhiyan.



1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Current Students Feedback: At the end of each semester, a feedback from every student is taken. The best suggestions are filtered out and later on incorporated, if needed.

Employers Feedback: Organizes curriculum development workshop, where we invite employers also. Their feedback is collected during these interactions.

Board of Governors (BOG): BoG meetings are held in the Institute and many advises and suggestion are discussed, accepted and incorporated.

Academic Committee: The Institute has a academic committee that consists of senior professors, experienced persons from industry who provide valuable feedback on different issues including curricular and co-curricular areas.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

Feedback forms are distributed among participants and mentors/ speakers at the end of seminars/ workshops and finally analyzed. An analysis report is prepared to understand the lacunae and scope of improvement in future.

Student's Feedback Form
Course: CE

Date: 10/8/17

Page No: 07
Faculty Name: Dr. P. K. S. Prasad
Subject: CE 304 - *Advanced Technology in Structural Design*
Course Code: CE 304
Sem: 2014-15
Student's CGPA Score: 8.02
Percentage of classes attended: 90%

Dear Student,
You are requested to give your frank and objective opinion about the teaching of faculty on above mentioned points. It will help us to improve and maintain the quality of teaching. Your response will be kept confidential. Mark each point on a four point scale. Enter responses by filling 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Section A

S. No.	Points	Very Poor	Poor	Average	Good	Excellent
1	Ability to bring conceptual clarity and explanation of difficult topics by lecture				<input checked="" type="checkbox"/>	
2	Attention to detail					<input checked="" type="checkbox"/>
3	Maximum Communication Skill					<input checked="" type="checkbox"/>
4	Respect to dignity and Confidentiality					<input checked="" type="checkbox"/>
5	Ability to impart knowledge					<input checked="" type="checkbox"/>
6	Attitude and Language of your class					<input checked="" type="checkbox"/>
7	Completing theory with practical example					<input checked="" type="checkbox"/>
8	Teacher interaction and guidance outside of the class				<input checked="" type="checkbox"/>	
9	Team work completion of class, if applicable					<input checked="" type="checkbox"/>
10	Facilitates overall performance					<input checked="" type="checkbox"/>

Section B

S. No.	Points	Yes	No	No Comments
1	Students of last declared sem. 2 were not being benefited	<input checked="" type="checkbox"/>		
2	Adequate number of assignments and class work	<input checked="" type="checkbox"/>		
3	When your recommended teacher is teach the same subject to your juniors	<input checked="" type="checkbox"/>		
4	Would you recommend teacher to teach your subject	<input checked="" type="checkbox"/>		
5	Is your opinion in this subject is satisfactory	<input checked="" type="checkbox"/>		

Section C

1. What are the strengths of the teacher?
The con. was simple, clearly and about our concepts easily.

2. What are the areas of weaknesses in teacher?
N/A

3. Any other suggestions regarding curriculum, subject, study?
N/A

OmDayal Group of Institutions
Department of Civil Engineering
Seminar Feedback Form

Feedback

• Please keep in mind that writing in seminar sheets without attending a seminar is academic dishonesty and will not be tolerated.
• Seminar sheets must be filled out lightly by student after attending a seminar.
• There is a completed seminar sheet kept over in 3rd Floor Room No. 304.

Date of seminar - 25-3-16 Program: B.TECH CE

Student Name - Ujjayini Tripathi Roll No - 27501314050

Seminar Title - *Advanced Technology in Structural Design* Speaker - Prof. Manaswini Dasgupta

1. Grade the strength of the seminar (1 - Poor, 2 - Fair, 3 - Good, 4 - Very Good, 5 - Excellent)

a. Clarity of introduction and presentation
1 2 3 4 5

b. Relevance of information to the students of Civil Engineering
1 2 3 4 5

c. Did this seminar make you think about interesting issues in the field and describe how your functions in engineering?
Yes No

d. Was this information new to you?
Yes No

e. Should you be encouraged to learning more about this subject and discussing the possible applications to your future work?
Yes No

2. Please briefly describe what was interesting, important or relevant to your studies.
Construction is truly practical concept and it is very interesting and important in the civil Engg. This presentation was informative and was practical concept as well as practical thinking.
3. What positive things can you take from the seminar? What should have been avoided?
I take from the presentation was con. applying to practical concept to be constructive and nothing should be avoided in this presentation.

4. What other topics would you like to learn about, or to be covered by the seminar?

STUDENT SIGNATURE: *Ujjayini Tripathi* Date: 2-5-16

Faculty Signature: *[Signature]*

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

- If the University wants, they consider our member for constituting the Board of Studies. Our suggestions for addition/ alteration in the curricula, internal examination, assignment, project work etc. are communicated through the member of the Board of Studies and some of our suggestions are accepted at times.
- Faculty members regularly attend workshops and seminars organized by MAKAUT for curriculum revision and modification. Consequently suggestions and feedback are conveyed to the university through mails.
- However, in all curriculum upgradations, routine feedbacks obtained from various stakeholders are analyzed and discussed in the in-house departmental meetings and meetings with the Principal.

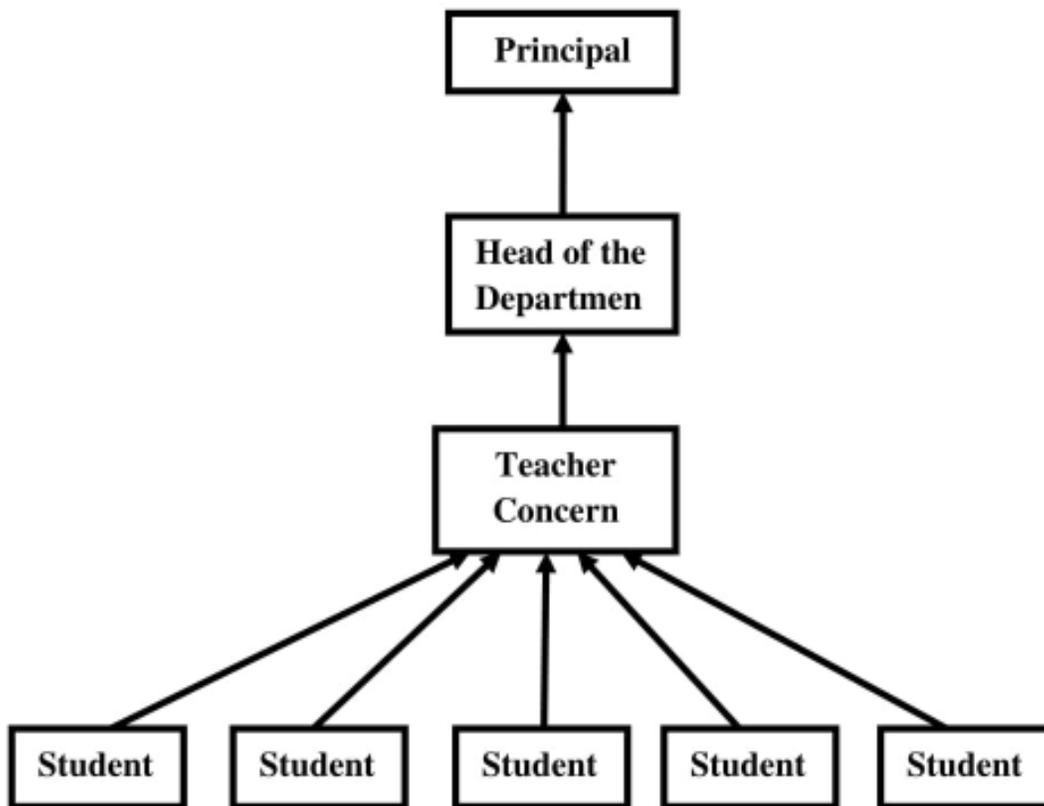
1. Evidence of Feedbacks from direct (student, faculty)

 <p>Student's Feedback Form Name: <u>Dr. P. A. J.</u> Course: <u>CE</u> Date: <u>11/11/17</u></p> <p>Department: <u>CE</u> Faculty Name: <u>Dr. P. A. J.</u> In-charge: <u>Dr. P. A. J.</u> Date: <u>11/11/17</u> Page: <u>1000-12</u> Students' Contribution to: <u>CE</u> Percentage of students' response: <u>80%</u></p> <p>Section A</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Points</th> <th>Very Poor</th> <th>Poor</th> <th>Average</th> <th>Good</th> <th>Excellent</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ability to bring the curriculum up to date and monitor it through efforts by faculty</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>2</td> <td>Designing Curriculum (CE)</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>3</td> <td>Monitoring Curriculum and Course</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>4</td> <td>Revision, Update, Amendment</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>5</td> <td>Curriculum and Content of course</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>6</td> <td>Conducting internal and external</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>7</td> <td>Assessment</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>8</td> <td>Faculty resources and guidance</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>9</td> <td>Infrastructure facilities (if any)</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>10</td> <td>Cooperation</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>11</td> <td>The fees contribution</td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Section B</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Points</th> <th>Yes</th> <th>No</th> <th>Not Answered</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Faculty staff involved with the work of the institution</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Additional facilities if any provided and available</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Faculty staff encouraged to work in the institution during holidays</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Faculty staff encouraged to work in the institution during the summer</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Faculty staff encouraged to work in the institution during the winter</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> </tbody> </table> <p>Section C</p> <p>What are the strengths of the institution? <u>The CE course is very good and it is very helpful for the students.</u> <u>The CE course is very good and it is very helpful for the students.</u></p> <p>What are the areas of improvement (if any)? <u>None</u></p> <p>Any other suggestions regarding curriculum, resources, faculty? <u>None</u></p>	S.No.	Points	Very Poor	Poor	Average	Good	Excellent	1	Ability to bring the curriculum up to date and monitor it through efforts by faculty					<input checked="" type="checkbox"/>	2	Designing Curriculum (CE)					<input checked="" type="checkbox"/>	3	Monitoring Curriculum and Course					<input checked="" type="checkbox"/>	4	Revision, Update, Amendment					<input checked="" type="checkbox"/>	5	Curriculum and Content of course					<input checked="" type="checkbox"/>	6	Conducting internal and external					<input checked="" type="checkbox"/>	7	Assessment					<input checked="" type="checkbox"/>	8	Faculty resources and guidance					<input checked="" type="checkbox"/>	9	Infrastructure facilities (if any)					<input checked="" type="checkbox"/>	10	Cooperation					<input checked="" type="checkbox"/>	11	The fees contribution					<input checked="" type="checkbox"/>	S.No.	Points	Yes	No	Not Answered	1	Faculty staff involved with the work of the institution	<input checked="" type="checkbox"/>			2	Additional facilities if any provided and available	<input checked="" type="checkbox"/>			3	Faculty staff encouraged to work in the institution during holidays	<input checked="" type="checkbox"/>			4	Faculty staff encouraged to work in the institution during the summer	<input checked="" type="checkbox"/>			5	Faculty staff encouraged to work in the institution during the winter	<input checked="" type="checkbox"/>			<p>OmDayal Group of Institutions FACULTY FEEDBACK FORM</p> <ol style="list-style-type: none"> How positive are your interactions with other members of your department? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Extremely positive <input type="checkbox"/> Very positive <input type="checkbox"/> Moderately positive <input type="checkbox"/> Slightly positive <input type="checkbox"/> Not at all positive How effective is the leadership of your department chair? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Extremely effective <input type="checkbox"/> Very effective <input type="checkbox"/> Moderately effective <input type="checkbox"/> Slightly effective <input type="checkbox"/> Not at all effective How much do you feel your department chair values your input in making decisions? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> A great deal <input type="checkbox"/> A lot <input type="checkbox"/> A moderate amount <input type="checkbox"/> A little <input type="checkbox"/> None at all How effectively do you feel your values are being used by your department? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Extremely effectively <input type="checkbox"/> Very effectively <input type="checkbox"/> Moderately effectively <input type="checkbox"/> Slightly effectively <input type="checkbox"/> Not at all effectively How useful is the feedback the principal at this institution gives you? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Extremely useful <input type="checkbox"/> Very useful <input type="checkbox"/> Moderately useful <input type="checkbox"/> Slightly useful <input type="checkbox"/> Not at all useful How much support does the administration at this institution give to the teaching staff? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> A great deal <input type="checkbox"/> A lot <input type="checkbox"/> A moderate amount <input type="checkbox"/> A little <input type="checkbox"/> None at all
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- The institution collects all feedback in the form of questionnaires.
 - Student feedback is obtained from student during each semester.
 - Parent teacher meeting are organized by each department and feedback is also collected from them.
 - Suggestions and feedback from various industry personnel and academicians are invited.
 - All these feedback and suggestions are discussed and analyzed properly in departmental meetings and appropriate steps are taken to develop areas of challenges if any.

Documents and Evidence:

1. Flowchart of feedback system



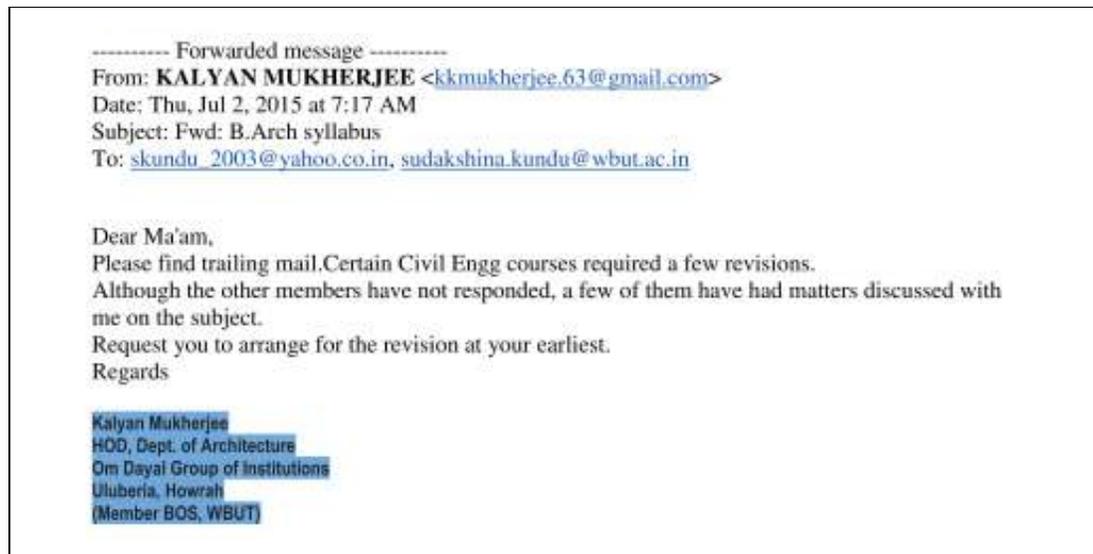
3. Evidence of Departmental meetings and key issues that has been discussed

Minutes of Departmental meeting dated on 07.02.17			
Agenda:			
1. Subject allocation for even semester 2016-17.			
Decision Taken:			
Name	Sub Code	Subject Name	Dept.
Mr. Dipankar Hazra	CS892	Project-2	CSE
	CS601	Database Management System	CSE
	CS601	Database Management System Lab	CSE
	CS402	Formal Language & Automata Theory	CSE
	CS403	Computer Architecture Lab	CSE
Mr. Suman Patra	CS691	Design Lab	CSE
	CS892	Project-2	CSE
	CS602	Computer Network	CSE
	CS602	Computer Network Lab	CSE
Dr. Surendra Chatteraj	CS403	Computer Architecture	CSE
	CS692	Project-2	CSE
	CS603	Operating System	CSE
	CS693	Operating System Lab	CSE
	CS291	Basic Computation and Principles of Computer Programming	CSE
Ms. Sandip De	CS291	Basic Computation and Principles of Computer Programming Lab	CSE
	CS604B	Computer Graphics	CSE
	CS891D	Cryptography & Network Security	CSE
Mrs. Piyali De	CS891	Design Lab	CSE
	CS691	Operating System Lab	CSE
Mr. Subhojit Ray	CS291	Basic Computation and Principles of Computer Programming	ECE
	CS291	Basic Computation and Principles of Computer Programming Lab	ECE
	CS891	Design Lab	CSE
	CS892	Project-2	CSE
	CS692	Computer Network Lab	CSE
Mr. Dibabijoy Ghosh	EC695A	Object Oriented Programming(I) Lab	ECE
	EC695A	Object Oriented Programming(II) Lab	ECE
	CS491	Software Tools Lab	CSE
Mr. Mahanta Sen	CS291	Basic Computation and Principles of Computer Programming	ME
	CS291	Basic Computation and Principles of Computer Programming Lab	ME
	CS291	Basic Computation and Principles of Computer Programming	CE
Ms. Koushika Das	CS402E	E-Commerce (TE)	CSE
	MIS499	Numerical Lab Practice	CSE
	MIS499	Numerical Lab Practice	CE
	MIS499	Numerical Lab Practice	ME
Mrs. Koushika Das	CS691	Database Management System Lab	CSE
	CS692	Software Tools Lab	CSE
	CS490	Computer Architecture Lab	CSE
	CS291	Basic Computation and Principles of Computer Programming Lab	CSE
	CS291	Basic Computation and Principles of Computer Programming Lab	ME
Date: 07.02.17			
(TIC, CSE)			

4. Evidence of Relevant modifications that has been communicated to the Principal, IQAC.

Minutes of meeting of the proceedings dated 06.01.2017	
Agenda:	
1. Smooth functioning of the University theory examination.	
2. Formation new exam cell for cell.	
3. New pattern of unit tests for the coming semester.	
Person Present	Signature
1. Prof. Satyendra Nath Chatterjee	<i>Satendra Chatterjee</i>
2. Prof. Prosenjit Das	<i>Prosenjit Das</i>
3. Prof. Dipankar Hazra	<i>Dipankar Hazra</i>
Presenting:	
1. The following faculty members are requested to visit examination hall(s) and when required after receiving instructions from IQAC.	
a) Prof. Gaurang Bandyopadhyay	
b) Prof. Sanjiban Maity	
c) Prof. Debajit Das	
d) Prof. Dipankar Hazra	
e) Prof. Kalyan Kumar Mukherjee	
f) Prof. Arvind Mukherjee	
2. New exam cell:	
The members are:	
a) Prof. Prosenjit Sen	
b) Prof. Debajit Das	
c) Prof. Arvind Das	
d) Prof. Debajit Das	
e) Mr. Pritam Roy	
1. The purpose of meeting	
Date: 06.01.2017	
Place: IQAC, Bhubaneswar	
Items discussed:	
1. Adoption of the new pattern of questions, answers and marking scheme for the coming semester.	
2. Final pattern of unit tests for the coming semester.	
3. Formation of the new exam cell for the coming semester.	
4. The following faculty members are requested to visit examination hall(s) and when required after receiving instructions from IQAC.	
a) Prof. Gaurang Bandyopadhyay	
b) Prof. Sanjiban Maity	
c) Prof. Debajit Das	
d) Prof. Dipankar Hazra	
e) Prof. Kalyan Kumar Mukherjee	
f) Prof. Arvind Mukherjee	
5. New exam cell:	
The members are:	
a) Prof. Prosenjit Sen	
b) Prof. Debajit Das	
c) Prof. Arvind Das	
d) Prof. Debajit Das	
e) Mr. Pritam Roy	

5. Evidence of Communication details with the authority of the MAKAUT regarding curriculum development.



1.4.3 How many new programmes /courses were introduced by the institution during the last four years? What was the rationale for introducing new courses /programmes?)

- No new programme/course has been added.

Any other relevant information regarding curricular aspects which the college would like to include.

- GIS, Additional Concrete Lab and Auto CAD for Civil Dept.
- CNC lab for Mechanical.
- Corporate Focus for all streams.

Criterion- II
Teaching – Learning and Evaluation

Student Enrolment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

Publicity

- OmDayal Group of Institutions is a self-financed Engineering & Architecture College and it has to follow the admission process.
- Admission Notification is published in the website of the West Bengal Joint Entrance Examination Board and as well as college website.
- Advertisements of college are published in the leading national and regional dailies in different languages.
- The advertisement contains detailed information about the programs, eligibility criteria, process of admission and the facilities provided by the college.
- The college also ensures publicity in the admission process through the college website at www.oders.in
- Scrolling the outstanding features of the college on the website.
- College also participated in different promotional fair to interact with prospective students.
- Hoardings are placed at leading locations in state/city.
- Through College prospectus and brochure.
- College alumni spread over in India and they also help college greatly in popularizing the college and securing admissions of their near and dear ones through referrals or recommendation.
- All information is also available in the college website : [**www.oders.in**](http://www.oders.in)

Transparency:

- The college follows the academic calendar, provided by the affiliating university, i.e. MaulanaAbdul Kalam Azad university of Technology (MAKAUT), Kolkata, West Bengal.
- The selection of aspiring student takes place through centralized counseling process based on merit or rank of an individual in WBJEE / JEE(main) under direct supervision of West Bengal Joint Entrance Examination Board and the system is fair and transparent. Further all the students allocated for our institute are admitted in the respective programs as per the ordinance of Govt. of West Bengal. For vacant seats, college takes admission as the ordinance of decentralized counseling issued by Govt. of West Bengal.
- WBJEE COMMITTEE selects candidates for different colleges from the merit list published by WBJEE and JEE (MAIN) on the basis of the preference given by the candidates.
- The selection of students to the college is done through the admission committees in the counseling centers which include a convener and a panel of experts. Thus the transparency is guaranteed and maintained all through the process from the start of the notification till the end of admission.
Therefore the access, equity social justices are guaranteed through transparency and adherence to the rules.



Advertisement in Newspaper

Advertisement in Website

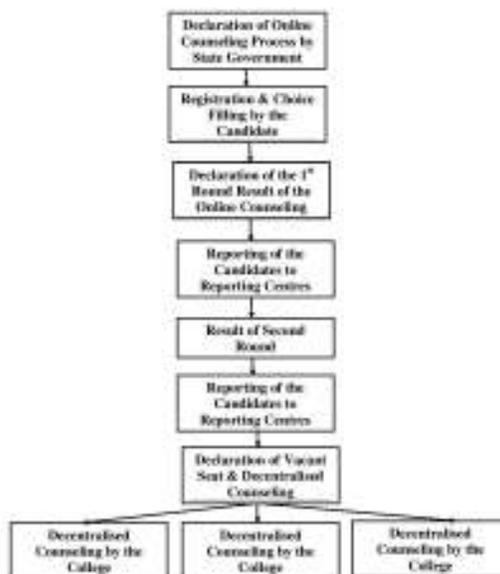
2.1.2 Explain in detail the criteria adopted and process of admission (Ex.(i) merit (ii) common admission test conducted by state agencies and national agencies(iii) combination of merit and entrance test or merit, entrance test and interview (iv)any other) to various programmes of the Institution.

Admission through State counseling:

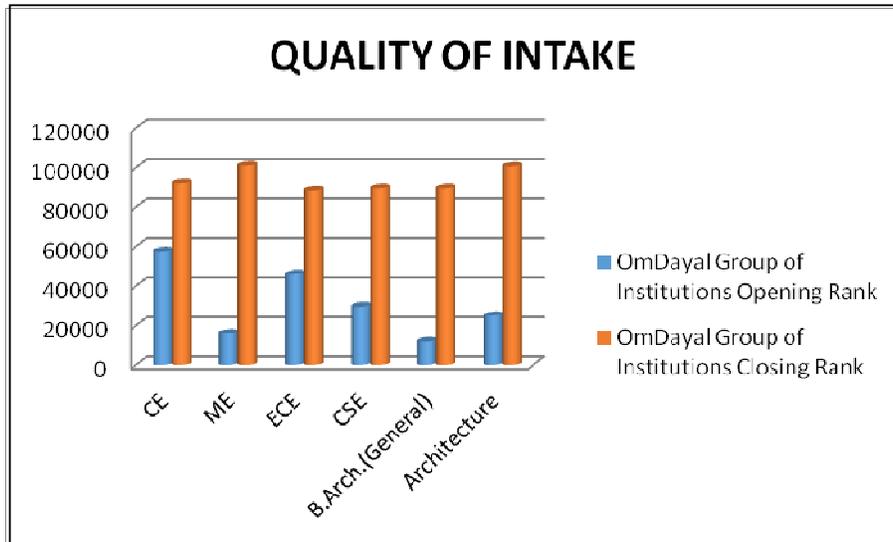
- Students are admitted in entrance examination conducted at State Level by West Bengal Joint Entrance Examination for admission in B.Tech. And B.Arch. degree courses on the basis of merit/ rank.
- 90% and 10% of approved B.Tech seats for an institute are transparently filled through the single window system of admission based on WBJEE (state entrance exam conducted by WBJEEB) and AIEEE (now JEE mains) respectively.
- The minimum qualification for B-Tech II year (Lateral Entry) is three-year engineering diploma in any branch of engineering (except Agriculture Engg., Pharmacy and Architecture) with minimum 50% marks. Conditions pertaining to reservation, domicile requirements etc. are available in the WBJELET Information Brochure.

Decentralised Admission to vacant seats after counseling:

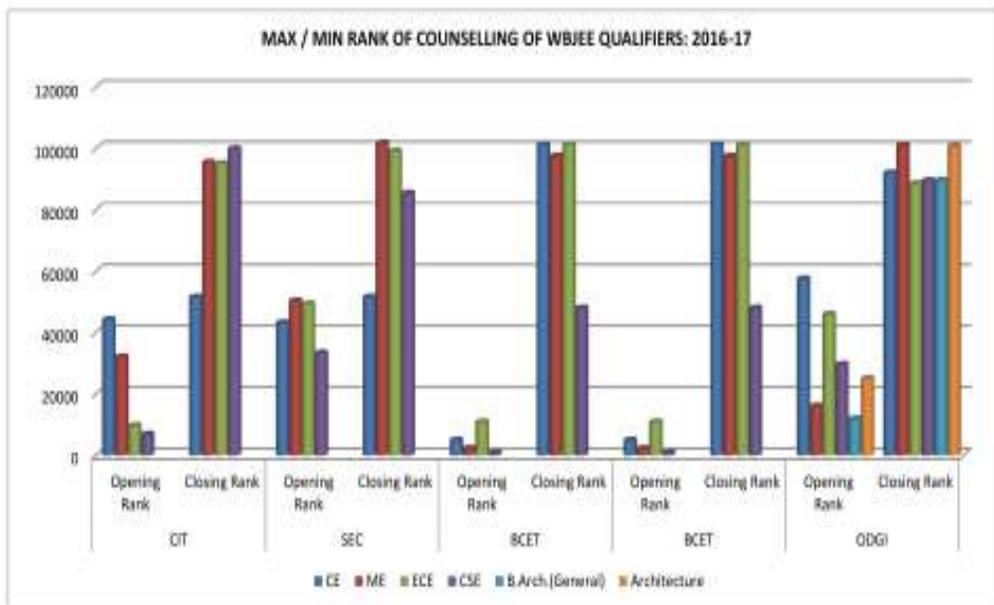
- Govt. of West Bengal permits individual institution to fill vacant seats directly on the basis of 10+2 (PCM %/ UPSEE/ JEE- mains ranking) and diploma holders merit list of applicants for undergraduate programme, after the counseling process over.



2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.



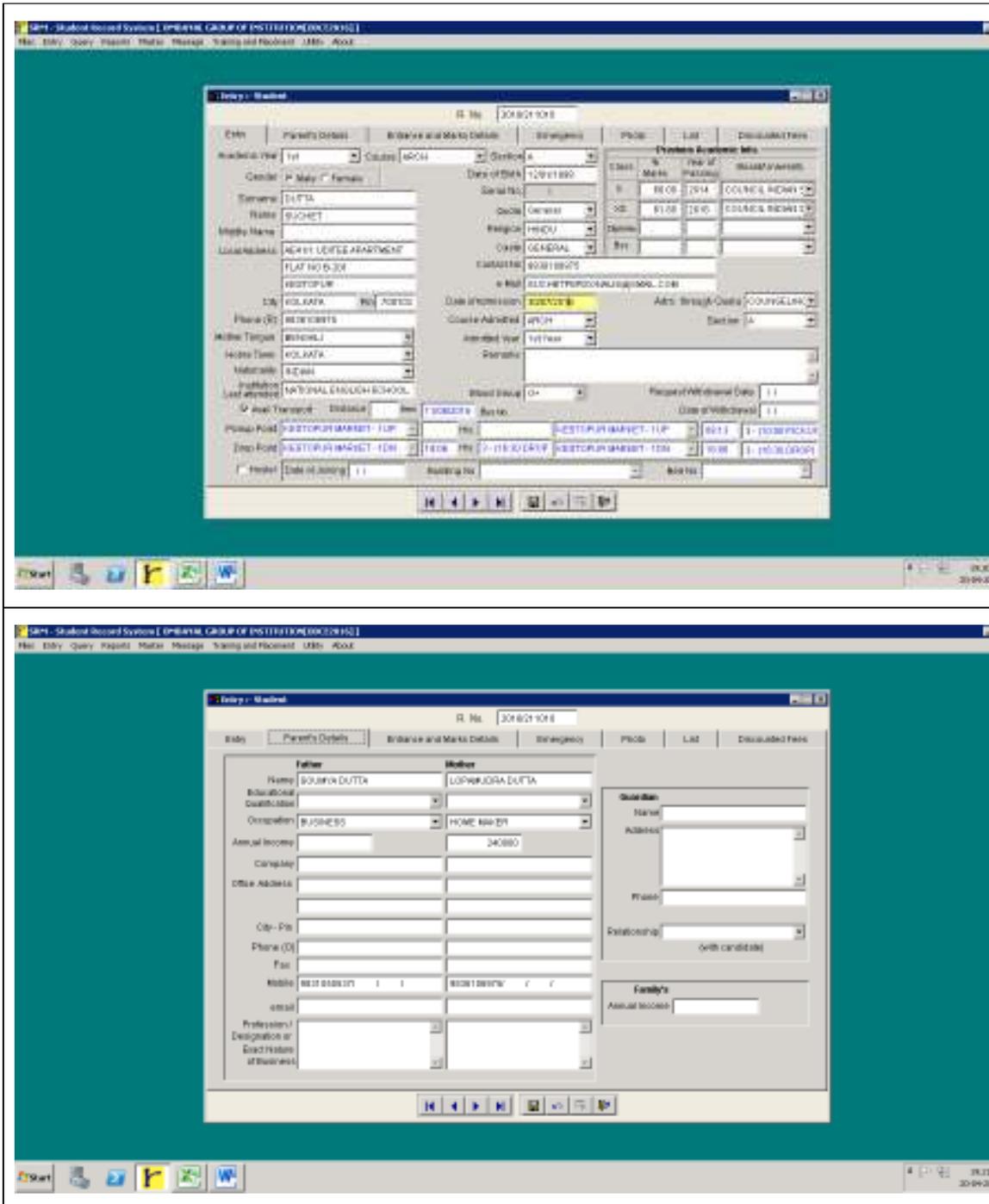
Comparison with other Institutions 2016- 17



2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes

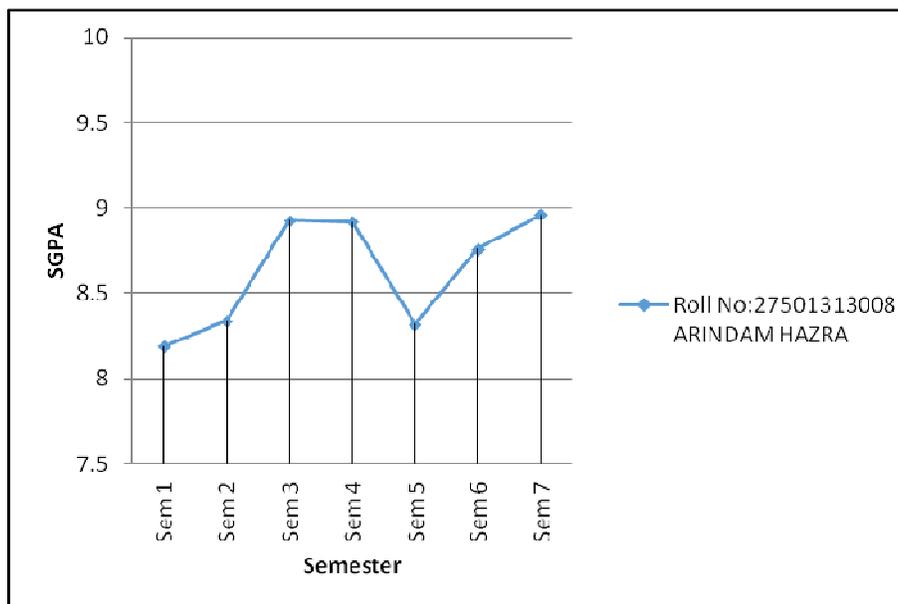
- The college verifies and review all the profiles of the students admitted annually.
- The institution has well planned well defined and well-designed mechanisms as far as reviewing the profiles and merits of the students.



- The administrative section regularly monitors and provides information to the academic heads for proper corrective measures.

- The institute has strong admission team which works round the year to get the right kind of students through add in print and electronic media, organizing competition, seminar in school and junior colleges.
- It also takes the feedback from them regarding the basic needs and kind of environment they prefer to pursue their higher studies and maintain quality.
- In particular the committee which is responsible for the admission procedure will monitor a particular section of students like Girls, villagers, or any specific community is found to be in less numbers in the admission lists.
- Then the committee tries to motivate that section of students by providing them requisite abilities to join our institution. The activities of the students are closely monitored by assigning some faculty members as a group forming committee members.
- A 'Record' of mentoring books are maintained which consists the parameters like, attendance marks scored, sports and extra-curricular activities and over all development of every mentees.
- The students with a little bit of negative approach are motivated by the faculty members with a counseling session so that they transform into positive personality and students feel more confident to excel.
- This type of activities in the institution can make the students to become an asset for the institution. Outcome: As a result of these activities in the last seven years, the college has noticed a continuous growth of students in both academics and discipline. The students have learnt to energize their positive attitude to increase their potential into many constructive activities and got placed into renowned industries.

The institution has a mechanism to review the admission process and student profile annually. Review of the admission process and the subsequent analysis of the student profile help in providing equal representation from all sections of the society.



2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

UG

Categories	Year 1 (2016-17)		Year 2 (2016-15)		Year 3 (2015-14)		Year 4 (2014-13)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	0	3	8	8	7	4	8	4
ST	0	0	1	0	0	1	0	0
OBC	1	1	24	2	18	3	12	2
General	95	43	104	54	82	48	96	43
Others	0	0	0	0	0	0	0	0
Total	96	47	137	64	107	56	116	49

SC/ST/OBC:

- Students from SC/ST/OBC are allotted seats as per state government policies. Tuition Fees reimbursement, fees exemptions, and endowment benefits are also extended to these students in our institution as per the state government rules.
- These students are providing with some extra facilities provided by the college management also.
- The institution continuously bestow their efforts to create awareness on the importance of higher studies i.e. education as a means of empowerment bring a change in the society.
- The faculty members of our institution visit the neighboring villages in order to promote the awareness of higher studies by counseling the students belong to the non-creamy layers.
- The faculty members also explains the various benefits they are getting from the government according to the reservation policies, financial and academic facilities gained through the institution and state government.

Women:

- For women, there is no separate reservation policy of the state Government and University in admission. They will also compete with made a fair merit base with men.
- The women candidates are provided with equal opportunity. Separate hostel facilities are available for the women category.
- The institution also provides special orientation and counseling for the needy parents on the importance of women education and exclusive facilities provided for them in terms of incentives, security, protection and special reservation by the state government and institution.

Differently-abled:

- There is special reservation for the students who come into differently abled categories as per the UGC and state government norms.
- Their requirements and needs are given a higher importance with a special care and attention by the college authorities.
- The college provides them with special toilets facilities. The college ensures that all their classes are held in the ground floor only. They are provided special sitting arrangements in the class rooms.
- The college also provides a special means of transport particularly for these students. Separate ramp facilities have been constructed for the differently abled categories.

Economically Weaker Sections of the Society:

- The Chairman and Principal of the institution provide some special benefits and reservations for the benefit of the students who belong to economically weaker sections like the concession in fee, free books, free transport and special rewards which help them in their career.

Minority:

- The institution has given reservations to the students belonging to minority community under the direction of Central Government, State Government and the affiliating university.
- The institution offers every possible help to the students belonging to this community in every aspect like scholarships and concession from the college funds and other resources.

Athletes and sports persons:

- The students who participate in sports activities at regional or national level are given admissions based on their excellence in athletics or sports.
- The college offers them some concessions and scholarships.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

ADMISSION STATUS REPORT OF LAST FOUR YEARS

Sl. No	Programmes	2016-17		2015-16		2014-15		2013-14		2012-13		
		Sanctioned intake	No. of students admitted	Sanctioned intake	No. of students admitted	Sanctioned intake	No. of students admitted	Sanctioned intake	No. of students admitted	Sanctioned intake	No. of students admitted	
1	B.Tech	CE	60	09	60	13	60	39	60	30	60	60
		ME	60	13	60	19	60	20	60	37	60	50
		ECE	60	11	60	12	60	08	60	07	60	25
		CSE	60	33	60	29	60	23	60	12	60	31
2	B.Arch	Architecture	40	33	40	38	40	40	40	38	40	35
		B. Arch. (General)	40	31	40	37	40	26	40	29	40	0

Intake capacity in core engineering stream for many private engineering colleges in & around Kolkata increased from 60 to 120 nos such as Techno, Meghnad Saha, JIS, CIEM from 2013. As a result, admission in colleges like ours away from Kolkata declined to a great extent. The same, numerical effect of gradual decrease in intake from the year 2013 is reflecting in the above table.

Due to sagging present job market scenario in core engineering stream, lack of new mega industrial projects in West Bengal, campus placement is getting affected. As such, parents and their ward is losing interest in engineering sector. However, this year, we are observing some improving.

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

- The institution completely follows the government policies, rules and regulations regarding the needs of differently-abled students.
- The institution caters to the needs of differently-abled students by providing them with helpers where necessary.
- The ramp facilities are available for the movement of the physically challenged students.
- The specific seats are reserved and offered as per the government policies at the time of admission in various courses.
- The institution provides stipends to needy students.
- The institution follows some necessary strong decisions like holding the classes to these students in the ground floor only for the easy accessibility of class rooms, special sitting arrangements in class rooms, and other facilities to them.
- The institution provides stipends, special toilets separate for boys & girls suitable to them.
- Special tutorial classes, counseling sessions are arranged to these students as a part of academic support.
- During the time of examination the institution provides some writers for the students having vision and functional disability. These students are also provided with extra time at the time of end examinations.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

- The student admitted to "ODGI" on the basis of the rank obtained in the WBJEE and JEE (Main).
- Before commencement of the programme, department faculty members discuss and counsel the students about the course curriculum and subject options available and explain the possible combinations.
- Parents of students are also invited to join in the discussion with the counseling team.
- The institution takes care of every aspect and needs of the students.
- Regular health camps are arranged to make them fit & fine.
- Regular moral boosting sessions are arranged to make their moral high.
- The institution acts as a ladder in order to climb up their world of aspirations and ambitions to reach their goals and get succeed in their lives.
- The institution takes care of the student not only to get suitable jobs after the course but also to become a successful & delightful human in his life.
- The college also takes care that every section or class contains equal mix of intelligent and average students. We admit students of all calibers without objection in providing EDUCATION FOR ALL.
- We also believe that EXPERIENCE and EXPERTISE brings EXCELENCE. In order to satisfy this, faculty with higher qualification, vast experience and expertise in the subject are recruited. This makes the student community to access with the faculty members easily and clears their doubts.

The weak students traced out by the faculty team and special care taken by concerned faculty members by arranging special doubt clearing classes to cope with their fellow students. These students are counseled by the senior faculty team, faculties experts in particular subjects.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial / Add-on/ Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

- The institution conducts doubt clearing classes, product development programmes and application oriented programmes for all groups of students to increase their skills and competence. Some surprise tests and monthly tests are also conducted by the department faculty members to test their knowledge received during classes & get updated throughout the semester.
- Also some Enrichment courses like personality development programmes, seminars, workshops, training programmes, technical festivals, conferences, and symposia are conducted to improve the student's mindset, creativity and motivate them to do some novel innovations and creative.
- A class teacher is appointed to every section/class in order to identify the weak students to help him/her with counseling and intensive coaching.
- Many courses are conducted by the college to provide better education environment for students so that they can improve their knowledge and enhance their abilities. Enrichment Courses like Soft Skill, Tutorial classes doubt clearing classes are already running in the college.
- The institution conducts guest lectures by eminent personalities for extra knowledge acquisition of the students.
- Also the Institution conducts special 'Programming in C' Laboratory practice classes beyond the college hour to bridge the knowledge gap of the weaker students.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

- Under the banner of NSS students and staff members are sensitized by organizing lectures and seminar on environmental issues, gender and health issues.
- The institution has set up a Women's Cell to cater to the problems & issues related to girls.
- The institution also has set up an eco-club to conduct eco-friendly programmes such as plantation, environment awareness camp, etc. Basic Environmental engineering subject is part of curriculum for 2nd year students.
- The institution is conducting various health awareness camps.
- The institution provides co-education holding the tradition of teaching the holistic education with emphasis on the ethical and moral principles.
- Students are learned to maintain their character high.
- The institute sensitizes its staff and students on issues such as gender inclusion, environment etc. by holding seminars on the relevant topics like women empowerment.
- The women's day is Conducted & celebrated by teachers and students .The institution also takes some initiatives to conduct conferences and workshops in association with MAKAUT and AICTE etc.
- Experts are invited from their field of interest to share and deliver their experiences and knowledge.

2.2.5 How does the institution identify and respond to special educational /learning needs of advanced learners?

- The advanced learners and the intelligent students are picked up by the faculty members.
- The students are exposed to subject applications, individual responses, simultaneous preparation for different employability test like GATE, PSU Examinations after the completion of every unit.
- Students are encouraged to participate in summer training programmes at various leading research institutes and laboratories, as well as industries.
- Students are encouraged to participate in summer training programmes at various leading research institutes and laboratories, as well as industries.

-
- Financial support is provided to students for participation in National and International Conferences.
 - These students are continuously encouraged for higher study.
 - These students are continuously encouraged to attend technical seminars & conferences.
 - A special interest is taken by the faculty members by providing additional time, advanced learning materials and assistance to the individual students continuously.
 - These students are provided with more number of motivational lectures to channelize their potential to become successful in their life.

Faculty members during the course of lectures in classrooms identify the advanced learners by means of getting feedback from the students orally and in written. Based on their performance, students are identified as slow and advanced learners. Special Tutorial Classes are held for the weaker students to clear their doubts. . The advanced learners are encouraged to acquire new and advanced information through the Internet and participation in events at various institutions of higher learning to bring out their full potential.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of dropout (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- Academic performance of the students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc... Is detected by the concerned faculty members during their lectures in classrooms.
- These students are also identified through surprise tests, class tests. We take marks as important criteria for identifying these students.
- If a student does not attend classes regularly, the college tries to look into the reasons for it, in order to lesser the number of dropouts.
- This is done through phone call, letters and meetings in the college to discuss the problems. The college provides counseling session for students and economic assistance is also give to the students under the poor student fund.
- The college has constituted a Student Welfare Cell to help the needy students in every way possible, also with the purpose of reducing the number of dropouts.
- The college has implemented a proctor/mentor system to evaluate the student performance in periodic manner. For 20 students one faculty is assigned as the proctor/mentor. Proctorial record is maintained regularly.
- The students who do not seem to cope up with the pace of learning are advised to go through the class note & study material provided in institute intranet. Extra time is provided for these students by concerned faculty members.
- These students are also given solved sample papers, solved previous year question papers. A friendly atmosphere is maintained in the class room so that individual doubts can be discussed freely.

2.3. Teaching-Learning Process.

2.3.1. How does the college plan and organize the teaching, learning and evaluation Schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

- The academic calendar of this institute is published in the prospectus and website of the institute before the beginning of the session of every academic year. It follows the academic calendar of the affiliating university (MAKAUT) along with the institute's own holiday list which is distributed to the students and the teaching staff well before the commencement of the semester classes.
 - The allotment of the teachers for the subjects to be taught is finalized before the commencement of the semester. Accordingly, class allotment is made on the basis of the expertise of the teacher and feedback obtained from the students in the previous years. This gives considerable time for the teachers to prepare their lesson- plans, the lecture notes and assignment schedules.
 - The students are provided with the detailed syllabus, unit wise break ups and the schedule of faculty assignments through time table on the first day of the class in the commencement of the semester. This helps the students to plan their learning and preparation for the evaluation.
 - Internal evaluation (for 30% of marks) is done by the institution (with the provision of distribution of answer scripts to students for verification/ability assessment), while 70%of marks are evaluated centrally by the University with experienced teacher-examiners.
 - Parents, as the primary stakeholders in the teaching learning process are provided with regular updates about the performance of their wards.
 - Teachers are encouraged to develop ICT based teaching gradually.
- The calendar will help the followings to plan their academic year: The website can visit as www.oders.in
- Students
 - Teachers
 - The lesson plan, course plan prepared by each department maintain the academic program in our college. The HOD is distributed the course work to each and every faculty member in the department. The lesson plan followed by the faculty members consist the details regarding details of contents to be covered and teaching aids.

ACADEMIC CALENDAR OF UG AND PG COURSES FOR THE YEAR 2015-16		
Old Semester	For Existing New Batch	For Continuing Batch
1. Commencement of Academic Programme	August 4, 2015	July 14, 2015
2. Admission activities (for existing new students) will be closed on	August 31, 2015	N.A.
3. Registration activities (for existing new) students/ students for the session 2015-16 will be closed on	Will be informed in due course	N.A.
4. First Test Date	September 21 to 26, 2015	September 21 to 26, 2015
5. Mid Semester Break Examination for the courses BPHLT (3A Semesters) & BPHI (3B in Hospitality Management (3A Semesters)	September 21 to 26, 2015	September 21 to 26, 2015
6. Second Test Date	November 14 to 21, 2015	November 14 to 21, 2015
7(a). Practical Examinations & Viva Voce	November 23 to 30, 2015	November 23 to 30, 2015
7(b). Theory Examinations	December 3 to 24, 2015	December 3 to 24, 2015
8. Term Semester Result	December 25, 2015 to January 14, 2016	December 25, 2015 to January 14, 2016
Suppose Supplementary Examination will be held on September 9 to 16, 2015.		
Details will be available in the University website in due course.		
Announcement regarding Registration & Examinations activities, will be available in the University website in due course.		
Even Semester	For continuing batch	
Will be informed later on.		

OMDAYAL GROUP OF INSTITUTIONS ACADEMIC CALENDAR FOR THE YEAR 2016-17		
Old Semester	For Existing New Batch	For Continuing Batch
1. Commencement of Academic Programme	18 th August, 2016	30 th July, 2016
2. Admission activities (for existing new students) will be completed by	18 th August, 2016	N.A.
3. Registration activities (for existing new) students/ students for the session 2016-17 will be completed by	15 th September, 2016	N.A.
4. First Test Date	17 th & 20 th September, 2016	17 th & 20 th September, 2016
5. Second Test Date	29 th & 30 th November, 2016	29 th & 30 th November, 2016
6. Semester Practical Exam	12 th , 30 th November, 2016	22 nd - 30 th November, 2016
7. Semester Theory Examinations	01 st - 22 nd December, 2016	01 st - 22 nd December, 2016
8. Term Semester Result	12 th December, 2016 - 09 th January, 2017	24 th December, 2016 - 09 th January, 2017

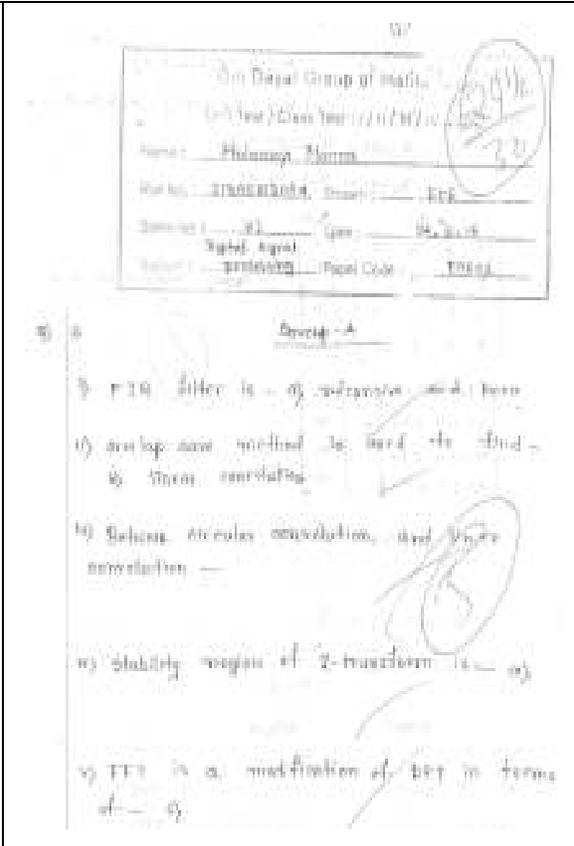
Even Semester	
For Existing New Batch	For Continuing Batch
1. Commencement of Academic Programme	27 February, 2017
2. First Test Date	29 th - 28 th March, 2017
3. Second Test Date	13 th , 30 th & 13 th May, 2017
4. Semester Practical Examination	26 th May - 1 st June, 2017
5. Theory Examinations	1 st - 26 th June, 2017

University's academic calendar

Institute's academic calendar

- 1) Lesson- plans
- 2) Feedback obtained from the students
- 3) Assignments
- 4) Internal question Paper 1
- 5) Internal question Paper 2
- 6) Answer script

<div style="text-align: center;"> <p>OMDAYAL GROUP OF INSTITUTIONS DEPARTMENT OF CIVIL ENGINEERING Lesson Plan Construction planning & Management (CE 302)</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <td>Faculty Name: Gaurambhadracharya</td> <td>Designation: Asst. Prof., Civil Engg</td> </tr> <tr> <td>Branch: Civil Engineering</td> <td>Year / Sem: Third Year – Sixth Semester</td> </tr> <tr> <td>Contact: III-IT</td> <td>Cr./Lec: 3</td> </tr> <tr> <td></td> <td>Academic Year: 2016-17</td> </tr> </table> <p style="text-align: right; font-size: small;">w.e.f.10 Feb-17</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lev. 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 <p>The image shows a document titled 'Internal Question Paper - 2'. It contains a list of questions related to the Laplace transform of functions. The questions are numbered 1 through 5 and involve finding Laplace transforms, inverse Laplace transforms, and stability regions of 2-transforms.</p>	 <p>The image shows a handwritten answer script for the questions in the adjacent panel. It includes a header with 'Om Dayal Group of Institutions' and 'Page Code: 10001'. The answers are written in blue ink and include mathematical derivations and final results for each question.</p>
5. Internal Question Paper - 2	6. Answer Script

2.3.2. How does IQAC contribute to improve the teaching – learning process?

- The Internal Quality Assurance Cell (IQAC) of the Institute, with all the Heads of Departments as members, co-ordinates and monitors the total academic activities with quality initiatives.
- The development of academic and administrative activities and the infrastructural growth through the collaborations with research and consultancy are rigorously implemented on the basis of IQAC parameters.
- IQAC is a cell which keeps close vigil to maintain and sustain the quality parameters throughout the year in all spheres.
- For this purpose, a separate room has been provided for the IQAC cell as per the IQAC guide lines.
- One separate IQAC coordinator has been engaged to look after the affairs of the IQAC. The development of academic and administrative activities is based on IQAC parameters.
- IQAC promotes art of infrastructure through the collaborations with research and consultancy.
- IQAC is a cell to maintain and sustain the quality parameters throughout the year in all spheres. A separate room has been provided for the IQAC cell as per the IQAC guide lines and one separate IQAC coordinator is in the charge of IQAC.

The activities of IQAC are:-

- Good relationship with industries.
- Good relationship with society
- Appointing experience and expert faculty

-
- To upgrade the knowledge of the faculty.
 - To initiate innovative practices in different areas of academic, co-curricular, research and extension activities.
 - It provides the efficient and progressive performance of academic tasks.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Adoption of interactive and collaborative learning as well as independent learning approaches during the classroom session is a mandatory task for all the faculty members of our college. The teachers use different teaching methodologies to make their classes fully interactive as well as collaborative.

Collaborative learning:-

- The Institute also organizes special training programmes which include Aptitude tests, Role play, GD, Personality development, Spoken English classes and communication sessions, with an aim to develop the students to face On-campus as well as Off- campus interviews. Such training sessions are conducted by both internal faculty members of different departments and professional organizations.
- Many students participate at National and International level Conferences and Workshops To exhibit their scientific temperament and talent by presenting papers there.
- Students are encouraged to participate in Industrial visits and Industrial Expo for technical Exposure.

Interactive learning:-

- The institute provides a state of the art seminar hall where students participate in GDs, Debates and Seminars Conduct of seminars, group discussions, presentations are the part of adopted at the Institute to develop skills like interactive learning.
- Honing the talents of the students through cultural fests and social events is a common feature of our academic programs.

Independent learning:-

- Students are also encouraged to use the library to enhance their knowledge through independent learning.
- The Local chapter of NPTEL has been formed involving students and Mentors from every stream to enhance their subject knowledge and develop their employability skills.
- Online Journals of DELNET, IEEE, ELSEVIERetc. Are also made available for staff and students to learn the latest developments on research on advanced topics of engineering and technology.
- To make the learning effective the institute provides their support to all faculty members. The institute provides a central library with all the latest books and journals which the faculty can use effectively and provide comprehensive latest information to students. The students are motivated to use the library independently which can enhance their skills and knowledge. The college organizing seminars, short term courses. The faculty members support and encourage every student to make use of internet, computers, video lecture and latest technologies in the market to upgrade themselves in their respective field of studies



- Extensive problem solving skills are practiced during tutorial hours.
- Mini projects and final projects are designed and developed as a part of creativity, innovation and idea mapping.
- Many students participate at National and International level Conferences and Workshops, Industrial expo to exhibit their scientific temperament and talent.
- Subject wise quizzes are conducted to improve analytical skills, logical skills and reasoning abilities of the students.
- Students contribute creative articles to the in-house magazines published by various departments.
- Participatory learning through group discussions, role play, case study, debates, field visits, model making supplement class room teaching.
- To encourage the scientific temper among students, the faculty members engage them in various practical works in their Labs and writing of papers.
- To sharpen the critical thinking among students, various GDs, Debates and Seminars reorganized in which students explore new ideas with the help of the expert views of eminent professionals.
- To give better exposure to almost all the students and young faculty members, IQAC cell has come-up with beautiful ideas in introducing institutional tie-up with Degree Institutes, Autonomous Institutes, Technical Institutes and Universities for better student and faculty exchange programs.
- The institution mainly focuses on the students to make them original thinkers. The faculty members motivate the students in such a way to participate in the youth festival and cultural activities to encourage the artistic temper among the students. In the same way, to encourage student's scientific temper, they are involved in the practical sessions and hands on experience in labs. Due to these types of activities the students can think on own and do at themselves better which will be useful for them in their career. To enrich their critical thinking, we will make them to participate in GDs, debates, seminars and JAM which will help them to think and explore new ideas and can get a chance to get the feedback from the experts and eminent professionals in their area of study. To address the dearth of resource full faculty across all the teaching institutions, students are motivated to take-up teaching as profession and to transform them into life-long learners.

2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

- Extensive problem solving skills are practiced during tutorial hours.
- Mini projects and final projects are designed and developed as a part of creativity, innovation and idea mapping.
- Many students participate at National and International level Conferences and Workshops, Industrial expo to exhibit their scientific temperament and talent.
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Earthquake effect on masonry structures and its remedy

By Dr. A. Hari Chandrasekar
Associate Professor, Sri Sivasubramanian Institute of Technology, Palani

Earthquake is a natural phenomenon which is violent, unpredictable, chances of occurrence are high and highly catastrophic in nature with the help of latest developments. The only way to control damage to the masonry structure is to provide enough safety measures in the structural system. While we can not completely change the masonry, necessary steps can be taken to protect under the effect of earthquake. Masonry walls work more masonry are still prevalent in rural India. The masonry structure does not have enough capacity to withstand case of failure or earthquake. They are likely to crack under compressive forces and develop cracks under tensile and shear forces caused by seismic shaking. The main objective point of earthquake resistant masonry building design is to ensure that these effects are contained and that major damage or collapse.

The masonry walls under the strong shaking are subjected to the following conditions:

1. The masonry between the roof and floor is treated as a deep beam spanning between roof and floor level subjected to lateral forces. This part of the masonry has good resistance against lateral forces.
2. The masonry between the roof and up to the sill of the opening behaves as a short column and undergoes to failure of the masonry wall of facing legs lateral forces. When subjected to strong shaking, this part also undergoes to failure of the masonry above and below and develops diagonal cracking.
3. The portion of the masonry between the sill of the opening and the plinth offers good resistance to lateral forces.

Effective design of the masonry structure during the earthquake is mostly due to the following considerations in the masonry structure of the structure:

1. Heavy weight of masonry, especially above opening leading to generation of longitudinal forces.
2. Low tensile and shear strength of masonry.
3. Brittle behavior of masonry only in compression as well as in tension.
4. Irregular masonry design.
5. Presence of openings and large openings in the wall.
6. Lack of stiff building between adjacent walls.
7. Large dimensions of the masonry wall leading to reduced strength and stability.
8. Asymmetry in the building due to asymmetrical placing of openings, stair and other building features.

Following are the recommended systems to reduce seismic vulnerability:

1. Masonry corners from both meeting of the corners must have good interlocking. From masonry corners should be casted vertical joints should be broken form corner to corner of the masonry wall.
2. Horizontal RC bands of depth not less than 75 mm and appropriately reinforced should be provided in the masonry walls of all store levels such as plinth, all floor and roof level.
3. The provision of opening free zone in the corners of the walls should be avoided.
4. It is better to keep openings as small as possible and away from corners.
5. An irregularly connected structure acts like a node zone between floors and therefore large horizontal forces at various levels. These are the areas of potential damage in masonry buildings. It is better to completely separate the structure from the main building. Adequate gap should be provided between structure walls and masonry building to ensure that they do not start crack during earthquake.
6. A provision of vertical reinforcement in masonry should be implemented by providing reinforcing rods in edges of walls and anchoring to foundation and roof level.

Article

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- The teaching methodology focuses on classroom lectures, guest lectures, self-learning, assignments, internal questions, uploaded answers, projects, practical sessions, periodical evaluation and feedback. Seminar room, projector, scanning and printing facility are given to the faculties to implement teaching pedagogies properly.
- Important documents like university syllabus, academic calendar, sample questions etc. can be accessed through intra web portal for all.
- Teachers use library resources for enhancement of the teaching- learning experience. Through OPAC and DELNET the students and faculty members are able to have access to the vast resources available online.
- The faculty members adopt e-learning methods from the resources of NPTEL. Students as well as faculty members are enrolled in different NPTEL courses for certification. The institution use different multi-media teaching aids like :

1) NPTEL evidence



2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

The institute exposes the students and faculty members to acquire advanced level of knowledge and skills in the following ways:

The Institute:

- Motivates faculty members for attending FDP programs at other institutes.
- Conducts workshops and seminars by eminent professors.
- Organizes industrial visits for both students and faculty members.
- Motivates the students and faculty members to participate & present papers in different national and international conferences.
- Organizes lectures by experts from industry and academic fields for the students to enhance their knowledge base.
- Conducts Soft Skill classes to improve communication skills and language learning for the gaining employment.
- Conducts special classes for the slow learners and remedial classes for the weak students

- On regular basis.
- Utilizes Library and computer resources to promote self-reading and self-learning.
- Assesses the learning outcomes in the process of knowledge and skill transfer during the end semester project works.
- Motivates Faculty members to refer to NPTEL, IEEE, and ELSEVIER etc. for preparing their lecture and updating their technical skill delivery.
- Students and faculties are participating/presenting papers in different national and international conferences.

2.3.7. Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional/ counseling/ mentoring/ academic/ advise) provided to students?

- In order to resolve day to day academic and other problems, coordinators from each department counsel the respective students once a week to overcome their difficulties during their courses of study. This activity is continued for all the years of study i.e. from first year to final year.
- Professional counselors are appointed periodically through the semester for students for stress management and enhancing cognitive skills of the students.
- During the final semester, the students are advised and encouraged to pursue higher studies along with proper career guidance by teachers and research and development department.
- Training and Placement Cell guides the third and final year students during the courses of studies for their prospective on &Off Campus placements.

1) Visit of professional counselors



2.3.8. Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

- All the academic activities in the Institute are overseen by the highest body called Institute Academic Council. The Institute has made substantial and continuous growth to bring some innovation in the teaching- learning process.
- Field trips, industrial training, mini-projects, role play etc. Along with the conventional lectures, students' participation in seminars, quiz programmes and group discussions.
- Students are trained for the use of the latest technologies, e-learning and audio visual in teaching learning process.
- Project based learning helps the students to pool in their findings, develop new ideasthusarriving at cognitive solutions.
- Industrial visits and participation in workshops encourages students for experimental learning.
 - ICT based learning like use of projectors and internet helps the learners to come closer to the knowledge pool for achievement of academics.

➤ NPTEL DIGITAL RESOURCES :

Sl. No	Discipline Name	No. of video Course	Institute/organization
1	Chemistry and Biochemistry	53	IIT Kharagpur, IISc Bangalore
2	Civil Engineering	51	IIT Guwahati, IIT Bombay, IIT Kharagpur, IIT Kanpur, IISc Bangalore, , IIT Madras
3	Computer Science and Engineering	63	IISc Bangalore, IIT Bombay, IIT Kanpur, IIT Guwahati, IIT Kharagpur, IIT Delhi
4	Engineering Design	15	IIT Guwahati,
5	Humanities and Social Sciences	75	IISc Bangalore, IIT Guwahati, IIT Bombay, IIT Kanpur, IIT Madras,
6	Mathematics	39	IIT Kharagpur, IISc Bangalore, IIT Kanpur, IIT Delhi, IIT Guwahati
7	Mechanical Engineering + Metallurgy and Material Science	73+25	IIT Kharagpur, IISc Bangalore, IIT Kanpur, IIT Delhi, IIT Guwahati, IIT Kharagpur
8	Physics	32	IIT Delhi ,IIT Madras, , IIT Bombay, IISc Bangalore
9	Electronics & Communication Engineering	61	IIT Kharagpur, IIT Kanpur, IISc Bangalore, IIT Delhi

i. PPT



ii. Project



iii. Quiz programmes



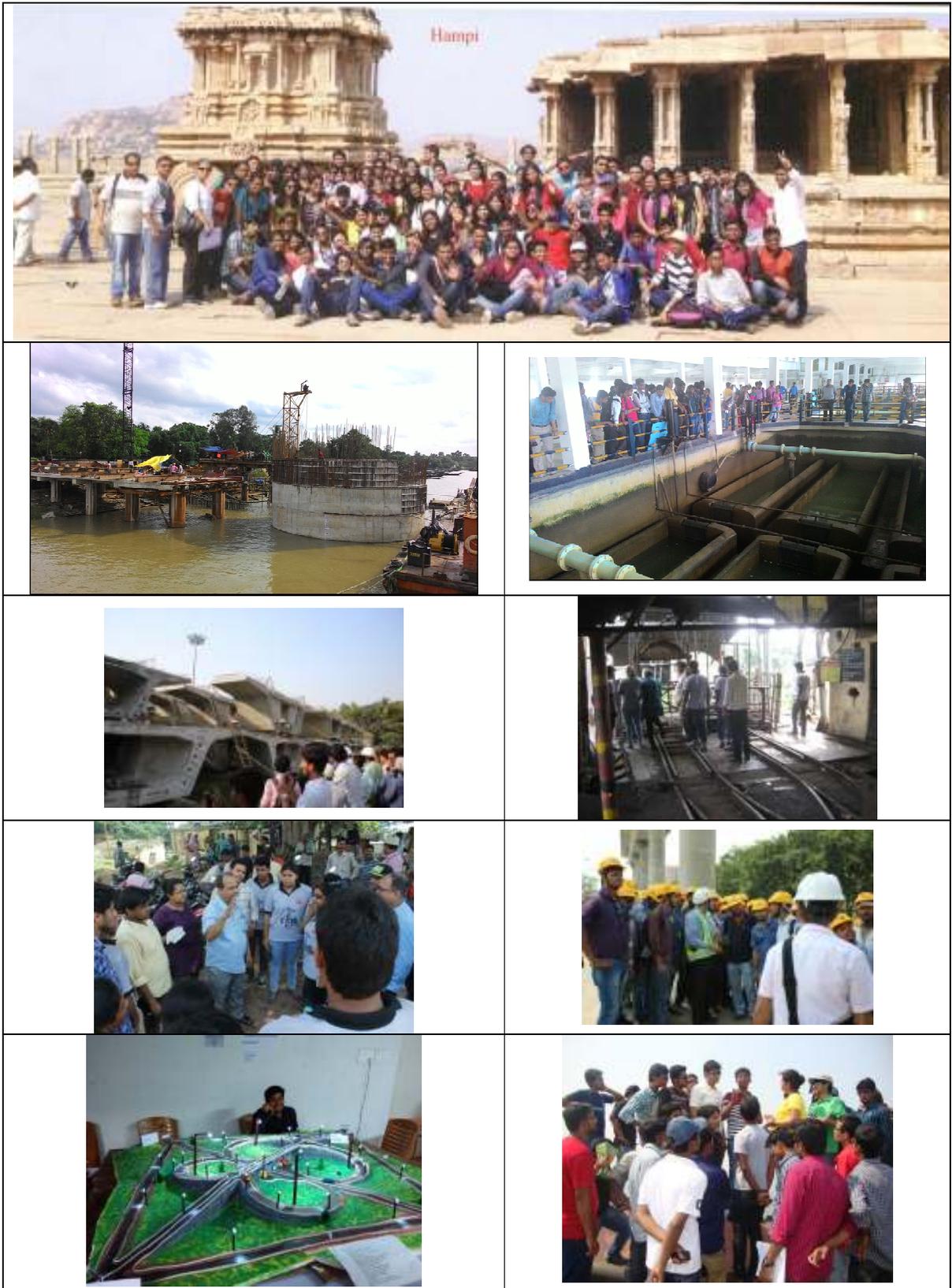
iv. Model making



v. Student participation in Workshops/Seminar/Symposium



vi. Field visits



2.3.9 How are library resources used to augment the teaching-learning process?

Library Facilities:

The institution is having well equipped central library. The students and faculty members are benefited about the latest information technology and books by the library. According to their interest the list of new entries, useful articles, and news items like this many important services were displayed by the library. Each student is provided with a library card enables them to set books issued from the library.

The head of departments follow the catalogues from different publishers which will be available in the library and order for books for their respective department.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

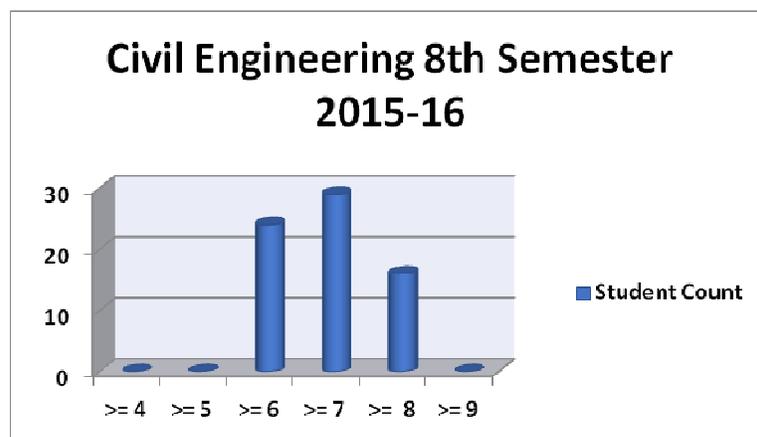
Such an undesirable situation rarely happens at the institute. The Institute handles the completion of curriculum very well. The academic activities are scheduled in the Institute's website. Work plan is prepared before the beginning of the semester and meticulously followed with all the modern teaching aids. Extra classes are arranged in time if required.

2.3.11 How does the institute monitor and evaluate the quality of teaching- learning process?

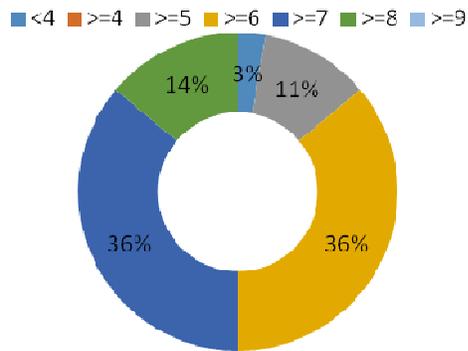
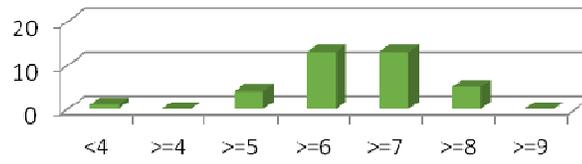
The quality of teaching learning is monitored through:

- Obtaining feedback of the students and other stakeholders in every semester.
- Time to time evaluation of the students.
- Routine review by HODs and Principal on completion of syllabus as per the MAKAUT schedule.
- Obtaining feedback from Alumni and Parents.
- Result Analysis.
- Organizing Seminars and extramural lectures at the institute

- 1) Periodic evaluation of the students/ Result Analysis



Computer Science and Engineering 2nd Semester



Feedback from Alumni

The figure displays four screenshots of the NAAC self-study report forms for Computer Science and Engineering. The top-left and bottom-left screenshots show the 'Programme Educational Objectives' and 'Programme Educational Outcomes' sections, which include tables for defining and assessing these objectives. The top-right and bottom-right screenshots show the 'Assessment Methods' section, detailing the various methods used to evaluate student learning outcomes.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

College has a definite recruitment policy for both teaching and non-teaching staff. Well before the commencement of the semester the department sends their requirement to the principal. Advertisement is given in national and regional news - paper and also displayed in college website. The applications received are scrutinized and eligible candidates are called for interview. A committee comprising concerned department HOD, senior faculty members and expert is formed which take the interview & demo of the candidates and submit the report of selected candidates basing on their performance. Principal in consultation with the management take the final decision. Direct appointment may be given in case of exceptional good candidate. Same procedure is also adapted in case of non-teaching staff.

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	0	0	2	0	3	1	6
M.Phil.	0	0	0	0	0	1	1
PG	4	0	5	3	38	14	64

Number of Visiting Faculty/Guest Faculty engaged with the College : 12

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

On the efforts made by the institution in this direction and the outcome during the last three years. For modern areas of study in related subjects experts from industry as well as retired professionals are invited for part-time/guest lecturers to fulfill the subject needs & the existing faculties are taking the help of NPTEL Videos and IEEE web- site.

The following efforts are made in this direction and the outcome has been encouraging:

- To encourage staff to participate in workshops and seminars the faculty is permitted to be on duty and is provided with TA /DA and also with other benefits to upgrade their knowledge by participating in national and international seminars/conferences/workshops.
- College encourages teachers to participate in orientation and refresher courses, summer/ winter courses at state, national and international level institution to learn and teach new programs.
- Management supports teachers who take up higher studies and improve their qualification in terms of reimbursement of fees, sabbatical leave/ study leave etc.
- Senior teaching faculties do guide junior faculty in subject preparation and teaching methodologies.
- Necessary books and journals in thrust areas are identified, procured and made available in the library on request from the faculty members.
- Training programs on usage of IT Related software are organized with help of external resources.
- At least Masters Degree holder retired engineers from industry are encouraged to join us and college compensates them as per norms applicable to a senior professor.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	15
HRD programmes	03
Orientation programmes	10
Staff training conducted by other institutions	05
Summer/winter schools, workshops, etc.	06

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

- Teaching learning methods/approaches
The college organizes programmes to encourage teachers to prepare computer aided teaching / learning materials. The college also supports by providing infrastructural support.
- Handling new curriculum
The College has experienced & qualified staff to handle the new curriculum effectively. HOD calls for the meetings with the faculty members to brief & explain the new syllabus & devise methods to empower the teachers to handle the new syllabus.
- Content/knowledge management.
Faculties attend National & International seminars & workshops. They also organize seminars. Through these they interact with academicians and industry people and update their knowledge & skills.
- Selection, development and use of enrichment materials
The college organizes the seminars, workshops, disseminate, and the practices in all the aspects of teaching and learning process. Further the faculties have been deputed as a resource person, presenting paper in leading national and other conferences. Newly inducted faculty is given orientation program by the concern department head.
- Assessment
The self-appraisal report & HOD Class Visit Reports are the major yard sticks use for the promotion of the faculty. It gives a clear picture in terms of their performance & research needs. Suggestions to improve the academic system are given by the faculties through self-appraisal report are used as a reference by the college.
- Cross cutting issues
Seminars and workshops are conducted where in experts from the above mentioned field are invited to share and deliver their knowledge and experience. There is different association in the organization such as Red Ribbon Club & Youth Red Cross to sensitize and bring the awareness about AIDS and gender issues and empowerment of women and improvement of socially and economically weaker society.
The cross cutting issues like climate, gender, environment education, human rights etc. finds an ample space when it comes to applying them positively in to the curriculum. The subject of environment education is a part of the college curriculum. Similarly the college offers the paper on computer fundamental whereby enabling them to learn the latest technology and understand which can help them to make a bright feature.
- Audio Visual Aids/multimedia.
Our faculties have been trained in use of audio visual aids and multimedia in the classroom/seminar hall. Lectures are taken using audio visual aids in classroom/seminar hall. Our computer department is provided with audio visual aids as per the requirement. We have latest computer aided packages, as per our requirement. It includes projectors, computers, sound system etc. Faculty members are provided with computers with internet browsing facility for preparation of teaching/learning materials.

-
- OER's (open educational resources)
The college provides the facility of open educational resource. Teachers are requested to develop and share their notes and teaching material with other teacher through the hard copies/soft copies and the same is also shared with the students. Complete course materials, modules, text books, videos, soft copies and any other tools, materials are used to support access to knowledge for faculty members.
 - Teaching learning material development, selection and use.
The faculties are given free access to internet which helps them to collect learning material. The college has a well-stocked library containing books and journals of various subjects. Further the college organizes seminars and conferences which help as a learning source for the faculty. The use of audio visual devices and computers in classroom to empower the new faculties was trained by departmental senior Faculties.
 - c) Percentage of faculty
 - Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies – 05%
 - Participated in external Workshops / Seminars / Conferences recognized by national/international professional bodies - 50%
 - Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies -65%

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

The institution extends full support for the professional development of the faculty. The faculties are encouraged to pursue their M.Tech. & Ph.D. through faculty development schemes. Application for research grants for major and minor projects are encouraged, recommended and forwarded. The staff members are motivated and encouraged to participate in refresher & orientation programs, national, international conferences/Seminars, in-service training, and organizing seminars. The institution also conducts number of seminars, workshops & special lectures for the benefit of faculties.

To facilitate smooth progress and recharge teachers. The college takes initiative in

- a) availing grants/ funds,
- b) sanctioning training program and leaves to scholars,
- c) seeking experts' advice and support,
- d) support in terms of technology and information needs, adequate infrastructure & human resources

The institution provides duty leave to faculty for participating and presenting papers at national and international conferences.

2.4.5 Give the number of faculty who received awards/recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

No

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes how is the evaluation used for improving the quality of the teaching-learning process?

- Yes, evaluation of teaching quality as well as other aspect of the teachers are done by the students through students' feedback once in a semester for the theory and practical subjects taught by the faculty. Feedback reports are discussed with the staff members and departmental HOD and suggestions for improvements are solicited. This evaluation makes the teaching - learning process more effective. At the end of every academic session staff self-appraisal and

annual appraisal by the HOD are reviewed by the Principal and Secretary for necessary corrective measures and rewards for faculty.

- The college also collects exit level feedback from the passing out graduates. These are also analyzed by the HOD.
- Feedbacks from parents have also been collected through Parent-Teacher meeting.
- Evaluation by external peers is not done in our institute. But teacher's evaluation is used as a tool for identification of deployment/ training needs of faculty in turn improvement in quality of teaching- learning process.

Sample Exhibit:- Feedback of the students:

Student's Feedback Form
Course: CE

Date: 24/11/17

Programme Name: B.TECH
Faculty Name: Dr. Chandra Prasad
Subject Name: C++ and Technology
Course Code: CE 2017
Sem: 2016-17
Student's CGPA Marks: 8.02
Percentage of classes attended: 100%

You are requested to give your frank and objective opinion about the teaching of faculty on under mentioned points. Kindly fill up to improve and maintain the quality of teaching. Your response will be kept confidential. Mark each point as 1 for poor, 2 for fair, 3 for good, 4 for very good, 5 for excellent.

Section A

S. No.	Points	Very Poor	Poor	Average	Good	Excellent
1	Ability to bring class/subject clearly and distribution of things/notes by teacher				✓	
2	Application provided					✓
3	Teacher's communication skill					✓
4	Response frequency and Dynamically					✓
5	Teacher's Subject Knowledge					✓
6	Introduction and Coverage of course					✓
7	Comprehensibility theory with practice examples				✓	
8	Teacher's motivation and guidance outside of the class				✓	
9	Teacher's computer I.T skills, if applicable					✓
10	Teacher's overall performance					✓

Section B

S.No.	Points	Yes	No	No Comments
1	Results of test declared with 2 weeks of a being completed	✓		
2	Average number of assignments and class work	✓		
3	Would you recommend teacher to teach the same subject to your juniors	✓		
4	Would you recommend faculty to teach this subject to your juniors	✓		
5	Do you consider this syllabus is very diff.	✓		

Section C

What are the strengths of the teacher?
Very good teaching method and teacher is not comparing for time so student gives a better answer. The con. with notes daily by and class are complete easily.

What are the areas of weaknesses in teacher?
N/A

Any other response regarding curriculum, subject, faculty?
N/A

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

- At the beginning of the academic year, the Institute announces Academic Calendar indicating dates for the various examinations to be covered in the Semester. The Institute conducts examinations in centralized mode for each class test and Semester Examination.
 - The regulations, curricula and syllabi of all the programmes offered by the Institute are available in the affiliating University (Maulana Abul Kalam Azad University of Technology, Kolkata) websites.
 - The regulations contain the details of the evaluation process according to the affiliating University norms.
 - The Officer-In-Charge of the Examination Cell of the Institute prepares notices ahead of each Semester Examination as per the guidelines of the Controller of Examination of Maulana Abul Kalam Azad University of Technology (MAKAUT), Kolkata to conduct all the examinations.
 - The time tables for the two class tests in each Semester are prepared by the Examination Cell of the Institute in consultation with the Principal and the HoDs. Students are also informed well in advance about the schedules.
 - Examination schedules are also displayed on the Institute Notice Boards.
 - The question paper formats including the marks distributions are communicated to faculty members through internal Circulars.
 - Full marks of the examination, date, time, seating arrangements, and invigilation duties are notified to the students and faculty members one week before commencement of the Internal and Semester Examinations.
 - The Examination Cell also distributes the answer scripts and question papers to the concerned invigilators immediately before commencement of the examination. After each examination, the papers are collected and distributed to the concerned faculty members for evaluation.
 - Students are able to know internal marks within 10 days of the completion of the examination through the concerned teacher.
 - The evaluation of Semester Examination papers is carried out by the MAKAUT at a Central Evaluation Facility. Students getting relatively poor marks, are opted with a re-test on behalf of the Department to improve their performance.
- The Institution 100% ensures that the stakeholders of the institution especially students and faculty are aware of the evaluation processes like Alumni i.e
- The students evaluate the teachers.
 - The teachers evaluate the students.
 - The principal evaluates the teachers etc.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The institution has adopted the followings steps for evaluation reforms i.e.

- By coding the roll nos. of the students.
 - The students are evaluated by group discussions, to improve their vocabularies.
 - By group discussions, seminar and sometimes blackboard tests are also held for some interesting and short topics Quiz competitions which make the evaluation challenging and interesting for students.
 - Faculty members also try new innovations in their teaching skill to make evaluation more interesting and beneficial to the students.
- As the college is affiliated to MAKAUT, West Bengal. The University has initiated various evaluation reforms i.e.
- Introduction of internal assessment system.

-
- Introduction of table marking and evaluation through secret roll nos. So as to make each evaluation process more transparent.
 - Introduction of objective questions in the question papers.
 - The college has adopted various university reforms concerning evaluation viz. Same pattern of question papers are given for home works..
 - Internal assessment is conducted to the students as per the university criteria.
 - Class tests and unit tests are conducted to evaluate the performance of students.
 - Through assignments, projects, seminars and practical Sessionals.etc.
 - Major evaluation reform adopted by the affiliating University is automated internal marks submission and uploading facilities.

The Institute follows the reforms initiated and adopted by the affiliating

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- The evaluation reforms of the university are followed in the best of the spirit
- The evaluation is all fair; the students are satisfied by showing them the evaluated performance in the answer sheets.
- Any doubt about evaluation is made clear to the students.
- All records are maintained i.e. answer sheets, award lists etc. weekly tests are taken and records are maintained.
- The student performance/awards are shown to the students to encourage them.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

- Each course, both theory, practical, and sessional (including project works) are evaluated for a maximum of 100 marks.
- For all theory, the continuous internal assessment carrying 30 marks subdivided to unit test (15marks), assignment/quiz/feedback/conduct (10 marks) and attendance (5 marks) are done.
- For practical, 40 marks of internal evaluation consists of conduction of laboratory experiment (15 marks), performance in laboratory classes (10 marks), viva voce (10 marks) and attendance (5 marks), respectively.
- For sessional, 100 marks of internal evaluation consists of conduction of experiment, performance in classes, viva voce and attendance respectively.
- The end semester examination shall carry 70 and 60 marks for theory and practical, respectively, as per the University norms.
- At least two assignments are given in each subject by the concerned teachers for evaluation of under the head “Assignment” carrying of 10 marks.

Example:

- The academic performance has been consistently outstanding for a substantial portion of the students. Many achieve excellence in academics as Departmental University toppers in each year.
Our students are excellent in the professional and higher education areas including in different national-level competitive exams and entrance tests.
- University is the sole authority for implementation of reforms in examination and evaluation but faculty members who are a part of academic bodies of university actively properly propose for reforms.
- The evaluation through seminar, group discussion, quiz, class tests, surprise tests approaches give a lot of information about student achievements after teaching a particular unit.
- The concerned faculty gets some information about the students ability and plans for further improvements.

- For summative approach attending classes are ;
- By attending classes regularly the students can write internal exams as well as final exams.
 - For smooth conducting of classes the students are grouped in sub groups and each group is guided by one faculty.

This is how the institution uses the formative and formative evolution approaches.

Example :

Civil Engineering Dept		Name: Soma Paul		Roll No. 27501315011	
<u>1st Year- 1st Semester ; Subject – Mathematics-I (M101)</u>					
Unit Test 1: 18/30	60%	Unit Test 2: 22/30	73.33%	Semester Exam: “A” Grade	8 point (70% -79.99%)
<u>1st Year- 2nd Semester ; Subject – Mathematics-II (M201)</u>					
Unit Test 1: 28/30	93.33%	Unit Test 2: 30/30	100%	Semester Exam: “O” Grade	10 point (90-99.99%)

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

- The Examination Cell of the Institute is a separate section which deals with the examination process including Internal and Semester Examinations. There is a separate section to handle registration, results and mark sheet.
- The following efforts were made by the Examination Cell for smooth conduct of the examination and related processes.
- Preparing Academic calendar with the schedule of Internal Assessment test, and publication of their results by the corresponding Departments.
- Disbursal of necessary materials to the external / internal examiners through Examination Cell of the Institute
- Preparing –
 - a) The attendance sheet
 - b) Invigilator schedule
 - c) Physical arrangements and related matters
- The Schedule of Examinations and Academic calendar and other information related to the conduct of examinations are published in the college Notice Board.

2.5.6 What is the graduate attributes specified by the college / affiliating university? How does the college ensure the attainment of these by the students?

PO’s:

Graduates of this institution will be able to:

- PO 1: Engineering knowledge: An ability to apply knowledge of mathematics, science, and engineering the knowledge of mathematics, science, engineering fundamentals, and Civil Engineering principles to the solution of complex problems in Civil Engineering.
- PO 2: Problem analysis: An Ability to perform engineering analysis and design in problems related to structural, hydraulics, geotechnical, environmental and transportation specializations of civil engineering. An ability to identify, formulates, and solves engineering problems.
- PO 3: Design/development of solutions: An ability to design solutions for complex Civil Engineering problems and a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

-
- PO 4: Conduct investigations of complex problems: An Ability for investigating and experimenting into engineering processes combined with an ability to analyze and interpret engineering data in civil engineering. An ability to identify, formulate, and solve engineering problems.
- PO 5: Modern tool usage: An ability to use the techniques, skills, and modern engineering tools such as CAD, FEM and GIS including prediction and modelling to complex Civil Engineering activities with an understanding of the limitations necessary or engineering practice.
- PO 6: The engineer and society: A knowledge of contemporary issues and apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Civil Engineering practice.
- PO7: Environment and sustainability: The broad education necessary to understand the impact of civil engineering solutions in a global, economic, environmental, and societal context and need for sustainable development.
- PO 8: Ethics: An understanding of professional and ethical responsibility and norms of the Civil Engineering practice. Awareness of role of civil engineering and civil engineers for the welfare of society, that continuous learning and improving from the mistakes of the past is the need of the hour, and that a responsible engineer is ethical and will continually increase his knowledge throughout life time.
- PO 9: Individual and team work : An ability to function on multi-disciplinary teams as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10: Communication: An ability to communicate effectively on complex Civil Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO 11: Project management and finance: An ability to work for the infrastructural development, to pursue teaching, research & development activities and to work effectively in a group. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage Civil Engineering projects and in multidisciplinary environments.
- PO 12: Life-long learning: Recognition of the need for, and an ability to engage in life-long learning and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Competence in applying the fundamentals of science and engineering principles necessary for the practice of civil engineering (which includes mathematics, physics, chemistry, solid mechanics, fluid mechanics, basic engineering geology and environmental science).

Decision regarding evaluation of students' performance, achievement of learning objective planning are adopted in the Faculty meeting and placed before the Board of Governors of the Institute for final approval regarding all related academic matters.

For evaluating students' performance the following procedures are adopted: Learning outcomes

- Attendance: Students' discipline, punctuality, and academic interest
 - Regular and remedial classes: Students' logical and knowledge-based thinking
 - Group discussion / Assignment / Quizzes / Class interaction / participation: Analytical problem-solving ability, deep understanding of the subject
 - Class tests: Evaluation of knowledge and skill acquired related to the particular to the concerned course
 - Viva voce: Overall concept on a subject, ability to express with clarity
 - Soft skill development: Better communication skills
- Technical topic presentation / Seminar: Improvement of presentation skills.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

In the case of grievance with evaluation, the following two aspects are performed at the Institute.

In the case of grievance with evaluation, the following two aspects are performed at the Institute.

Internal Assessment: All grievances regarding evaluation of internal assessment are addressed by the Examination Cell in cooperation with the corresponding Head of the Departments. For any clarification the student can approach the concerned faculty. If a grievance cannot be addressed by the course faculty, the student has the option to take it up with the Head of the Department.

Semester End Examination: If the grievance is against the End semester examination results, the Institution assists the students by helping them to apply for revaluation or re-checking to the office of the Controller of Examination of the affiliating University through Administrative Officer of the Institute. Within 10 days of the announcement of the results, students can apply for re-evaluation. RTI is also active which is availed by many students.

2.6. Student performance and Learning Outcomes

2.6.1. Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes, the students and staff are made aware of these through different notices issued in hard copy or electronically from time to time.

- Institutions of higher education across the country have recognized that a full commitment to teaching and learning must include assessing and documenting what and how much students are learning and using this information to improve the education.
- When we articulate the main goals for a course, we need to see whether students have achieved them, and then use the results to make our courses better. We're on the way to Learning.
- Learning Outcome of the Assessment is the process of collecting information that will tell an organization whether the services, activities, or experiences it offers are having the desired impact on those who undertake them.
- The results of Outcome Assessment are used to evaluate the effectiveness of academic programs and activities, and student services, and not the performance of individual faculty or staff. Faculty use the information collected to develop and improve academic programs.
- The institute's approach to the learning outcome assessment is defined clearly. Faculty is best suited to determine the intended educational outcomes of their academic programs and activities, How to assess these outcomes, and how to use the results for program development and improvement is a part of student evaluation.

PO's:

Graduates of this institution will be able to:

- PO 1: Engineering knowledge: An ability to apply knowledge of mathematics, science, and engineering the knowledge of mathematics, science, engineering fundamentals, and Civil Engineering principles to the solution of complex problems in Civil Engineering.
- PO 2: Problem analysis: An Ability to perform engineering analysis and design in problems related to structural, hydraulics, geotechnical, environmental and transportation specializations of civil engineering. An ability to identify, formulates, and solves engineering problems.
- PO 3: Design/development of solutions: An ability to design solutions for complex Civil Engineering problems and a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- PO 4: Conduct investigations of complex problems: An Ability for investigating and experimenting into engineering processes combined with an ability to analyze and interpret engineering data in civil engineering. An ability to identify, formulates, and solves engineering problems.
- PO 5: Modern tool usage: An ability to use the techniques, skills, and modern engineering tools such as CAD, FEM and GIS including prediction and modelling to complex Civil Engineering activities with an understanding of the limitations necessary or engineering practice.
- PO 6: The engineer and society: A knowledge of contemporary issues and apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Civil Engineering practice.
- PO 7: Environment and sustainability: The broad education necessary to understand the impact of civil engineering solutions in a global, economic, environmental, and societal context and need for sustainable development.
- PO 8: Ethics: An understanding of professional and ethical responsibility and norms of the Civil Engineering practice. Awareness of role of civil engineering and civil engineers for the welfare of society, that continuous learning and improving from the mistakes of the past is

the need of the hour, and that a responsible engineer is ethical and will continually increase his knowledge throughout life time.

PO 9: Individual and team work : An ability to function on multi-disciplinary teams as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: An ability to communicate effectively on complex Civil Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: Project management and finance: An ability to work for the infrastructural development, to pursue teaching, research & development activities and to work effectively in a group. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage Civil Engineering projects and in multidisciplinary environments.

PO 12: Life-long learning: Recognition of the need for, and an ability to engage in life-long learning and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Competence in applying the fundamentals of science and engineering principles necessary for the practice of civil engineering (which includes mathematics, physics, chemistry, solid mechanics, fluid mechanics, basic engineering geology and environmental science).

- The Institute aims to help students to reach their potential through the provision of a supportive, vibrant and challenging learning environment.
- The Institute is committed in creating an environment where students are supported to achieve their potential and working towards creating an inclusive learning community.
- The curriculum, teaching and learning and assessment at college are student centric.
- All the staff is involved in the construction of this learning environment.
- All students are valued equally during their learning journey with the institute.
- Students are active partners with shared responsibilities for their own learning and achievement, which enhance their employability and progression opportunities.
- This strategy recognizes the need to develop progressively self directed and confident learners with the knowledge, skills, attitudes and values.
- It acknowledges that students learn most effectively if they are supported as individuals to achieve personal development and self employability.
- The institution at the time of the admission provides counseling regarding the choice of options the students wish to opt. They are guided regarding the future prospects of various options.
- The students are motivated through personality development programmes. Students are encouraged to participate in activities for social and community service.
- The College has made dedicated efforts to impart quality education and generate new knowledge through research and development activities.
- The College through the orchestrated efforts of teachers, supporting non-teaching staff and administrative officers has been generating highly skilled employable and socially responsible man power.
- College has developed self reliant, enterprising and employable human resource. The college has started many professional courses like B.Tech - ECE, CSE, MECH, CIVIL & B. Arch.
- Many industrial houses conduct job placement fair in college campus.

The course objectives, syllabus and academic calendar are used by faculty to prepare a plan for the semester. In case of inter related subjects, faculties are also encouraged to coordinate amongst themselves to plan lectures or assignments so that different subjects taught are in sync with each other.

Faculty members are required to prepare academic diary before the commencement of each semester which includes Lecture plan, detailed assignments, syllabus copy, case studies, question

banks and previous year question papers. Books in the library and hand written notes according to the syllabus requirements are distributed to the students. Students' comprehension of a lecture is monitored by the faculty and their inputs are invited in designing teaching methods in depth. The Departmental head periodically monitors the academic performance, regularity and non-academic conduct to guide weak students for betterment.

Institution has specified procedure to collect and analyze data on student learning outcome; the following points are adopted by the institute in this context:

- Midterm and continuous evaluation comprising of weekly internal tests, assignments, term paper and seminar presentations.
- Introduction of unit wise internal choice and objective and analytical type questions consisting of objective, short and descriptive and analytical answers. This ensures comprehensive study and understanding of the entire course contents by the student.
- Annual system of examination for all courses.
- Seminar presentation by students.

Institute has taken following steps to overcome academic barriers :

- Delimiting the length of the answers in order to promote the point writings.
- Providing Question bank of various subjects to the students. Timely redressal of students' grievances.
- By showing answer books to the students to make them understand their relative strengths and weaknesses.
- Minimum attendance limit for students to minimize absenteeism.
- Extra classes for weak students to solve their problems.
- The periodic evaluation of teachers helps in the improvement of learning outcome

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- The Institute aims to help students to reach their potential through the provision of a supportive, vibrant and challenging learning environment.
- The Institute is committed in creating an environment where students are supported to achieve their potential and working towards creating an inclusive learning community.
- The curriculum, teaching and learning and assessment at college are student centric.
- All the staff is involved in the construction of this learning environment.
- All students are valued equally during their learning journey with the institute.
- Students are active partners with shared responsibilities for their own learning and achievement, which enhance their employability and progression opportunities.
- This strategy recognizes the need to develop progressively self directed and confident learners with the knowledge, skills, attitudes and values.
- It acknowledges that students learn most effectively if they are supported as individuals to achieve personal development and self employability.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes? have both social and economic relevance. College understands its responsibility in the socio economic parameters.

- The institution at the time of the admission provides counseling regarding the choice of options the students wish to opt. They are guided regarding the future prospects of various options.
- The students are motivated through personality development programmes. Students are encouraged to participate in activities for social and community service.
- The College has made dedicated efforts to impart quality education and generate new knowledge through research and development activities.
- The College through the orchestrated efforts of teachers, supporting non-teaching staff and administrative officers has been generating highly skilled employable and socially responsible man power.
- College has developed self reliant, enterprising and employable human resource. The college has started many professional courses like B.Tech - ECE, CSE, MECH, CIVIL & BArch
- Many industrial houses conduct job placement fair in college campus.

The course objectives, syllabus and academic calendar are used by faculty to prepare a plan for the semester. In case of inter related subjects, faculties are also encouraged to coordinate amongst themselves to plan lectures or assignments so that different subjects taught are in sync with each other.

Faculty members are required to prepare academic diary before the commencement of each semester which includes Lecture plan, detailed assignments, syllabus copy, case studies, question banks and previous year question papers. Books in the library and hand written notes according to the syllabus requirements are distributed to the students. Students' comprehension of a lecture is monitored by the faculty and their inputs are invited in designing teaching methods in depth. The Departmental head periodically monitors the academic performance, regularity and non-academic conduct to guide weak students for betterment.

2.6.4 What are the measures/initiative taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

Institution has specified procedure to collect and analyze data on student learning outcome; the following points are adopted by the institute in this context:

- Midterm and continuous evaluation comprising of weekly internal tests, assignments, term paper and seminar presentations.
- Introduction of unit wise internal choice and objective and analytical type question consisting of objective, short and descriptive and analytical answers. This ensures comprehensive study and understanding of the entire course contents by the student.
- Annual system of examination for all courses.
- Seminar presentation by students.

Institute has taken following steps to overcome academic barriers?

- Delimiting the length of the answers in order to promote the point writings.
- Providing Question bank of various subjects to the students. Timely redressal of students' grievances.
- By showing answer books to the students to make them understand their relative strengths and weaknesses.
- Minimum attendance limit for students to minimize absenteeism.
- Extra classes for weak students to solve their problems.
- The periodic evaluation of teachers helps in the improvement of learning outcome



2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

- Every student needs to fulfill the minimum attendance percentage criteria, which is fixed i.e. 75% as eligibility.
- Tutorials and laboratory hours are fixed.
- The tutorials and assignments are corrected within a short duration and the marks are entered in work register.
- Based on the participation in the class and the marks scored in the tutorials and assignments, the student level is judged by the staff member and appropriate action is taken.
- At the end of each periodical test, progress reports which consist of internal test results and attendance status are submitted to the office for further action.
- Counseling is given to slow learners. Parents of such students are called to meet their respective faculty member, if required.
- As the entire lab courses are continuously assessed, students who lag in these courses are given additional help and guidance.
- They are also given additional lab practice. The faculty members are encouraged to conduct surprise tests, quizzes, etc. to monitor the academic progress of each student.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The Institute aspires to have a transformational impact on students through comprehensive education by inculcating qualities of competence, confidence and excellence.

At the first place,

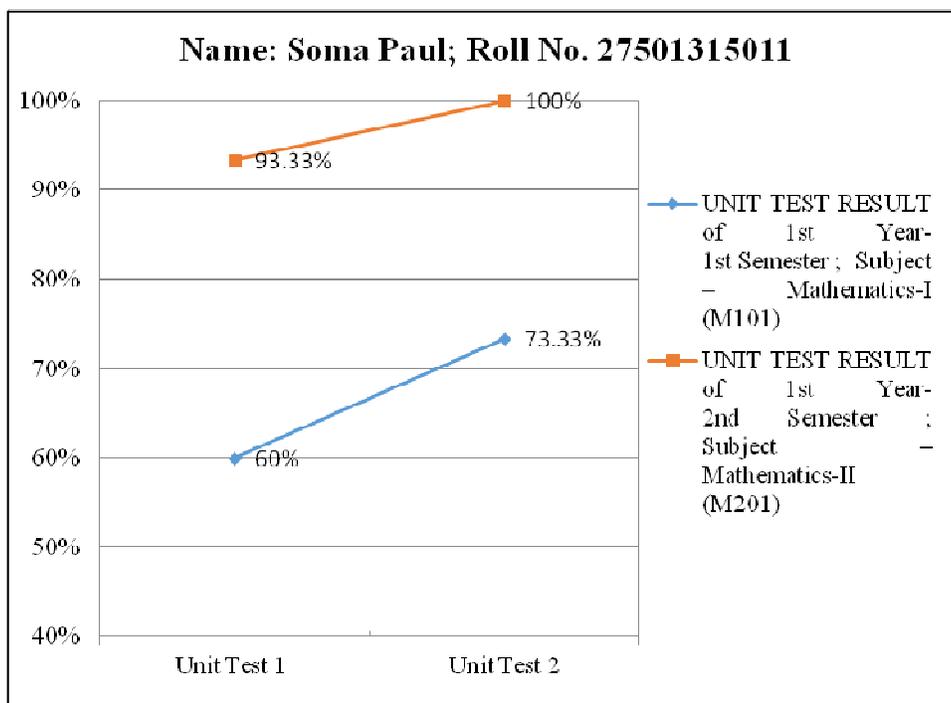
- The college aims to make its students employable.
- The college endeavors that its students should become valuable global citizens.
- To make the students academically sound enough, so that they are able to stare in the eyes of the competitive world.
- The college ensures that by the time the student finishes his/her education in the college, he/she attains all these specified attributes including social responsibility. They are quite capable of handling engineering problems.
- The faculty members of the college work rigorously throughout the academic year to enable the students imbibe the valuable lessons by way of seminars, moral lectures, presentations and field work.
- The faculty sensitizes students towards inclusive social concerns, human rights, gender and environmental issues to make them sensitive, sensible, useful and conscientious global citizens.

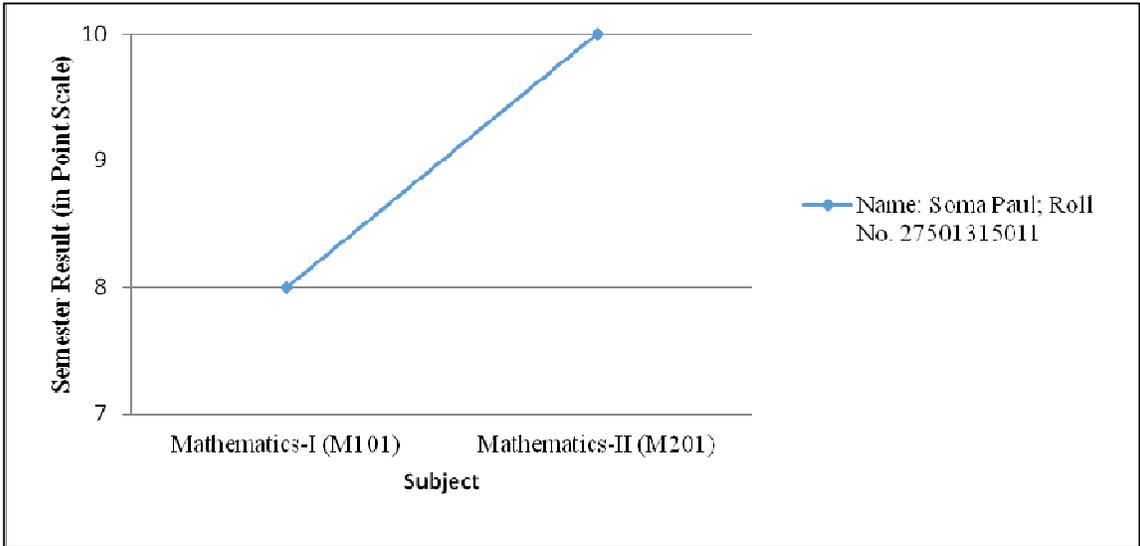
2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples.

Yes. Regular class tests, assignments, quizzes are given, performance is monitored and followed up by teachers.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

Civil Engineering Dept		Name: Soma Paul		Roll No. 27501315011	
<u>1st Year- 1st Semester ; Subject – Mathematics-I (M101)</u>					
Unit Test 1: 18/30	60%	Unit Test 2: 22/30	73.33%	Semester Exam: “A” Grade	8 point (70% -79.99%)
<u>1st Year- 2nd Semester ; Subject – Mathematics-II (M201)</u>					
Unit Test 1: 28/30	93.33%	Unit Test 2: 30/30	100%	Semester Exam: “O” Grade	10 point (90-99.99%)





Criterion – III
Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

No.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes. The College has a research committee to monitor and address the issues of Research and Research Projects of the Institute.

Composition of the R&D Committee

Sl. No	Department	Name of the faculty
1	CE	Prof. Satyendra Nath Chattopadhyay (Chairman)
2	CE	Prof. Pampa Sen
3	ECE	Prof. Swapan Majumder
4	CSE	Prof. (Dr.) Dhruvajyoti Ghosh
5	CSE	Prof. (Dr.) Sandip Dey
6	MECH	Prof. Partha Sarathi Chattopadhyay
7	ARCH	Prof. Kalyan Kumar Mukherjee
8	ARCH	Prof. Suranjana Chaudhuri
9	MATH	Prof. (Dr.) Prosenjit Sen
10	CHEM	Prof. (Dr.) Sukanya Das Chandra
11	PHYSICS	Prof. Pranab Biswas
12	HUMANITIES	Prof. Monita Mitra

Recommendation on implementation	Impact
To advice faculty members from various departments to send project proposals to the funding agencies such as DST and AICTE.	It is in the process.
To focus in the interdisciplinary research.	Faculty members are showing their profound interest for collaboration work among themselves.
To encourage students for publishing newsletters and magazines at regular interval department wise under the guidance of departmental faculty members.	The students are gaining new innovative ideas to implement real life projects and participating in various exhibitions organized by renowned institutions like NIT, IITs etc.
To motivate students and faculty members to involve themselves in research activities such that they can publish their papers in peer-reviewed journals in various research areas.	A number of research papers are being published by different students and faculty members in our institution.
To provide a day off to those faculty members who are pursuing Ph.D from different universities.	More faculty members are showing their interest to involve in research activity.
Encouraging the faculty members to organize seminar/workshop department wise on current trends to inculcate the research interest among students and themselves.	Students are getting involved in different research areas beyond their regular curriculum.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

1. Independence to the principal investigator
An additional responsibility as Research Coordinator (R&D) was vested on Prof. Satyendra Nath Chattopadhyay beyond his regular activities. He coordinates with the faculty members of the institution to endorse research, consultancy and high end training and other related activities. Faculty members are encouraged to submit their research proposal in relation with funding projects, which is later verified and approved by the concerned authorities of the institution.
2. Conduct the seminars, workshop
Conduct of seminars, workshops and short term courses to acquaint the faculty members and students with the latest topics in their field of studies.
3. Satisfactory infrastructure and human resources
Our institution has faculty to student ratio of 1:20 for UG courses. Every faculty members are motivated to engage themselves in R&D activity and utilize its resources to enrich their research profile. The R & D cell has been enriched with adequate infrastructure and resources.
4. Time-off, reduced Teaching load, and special leave etc. to faculty members
Faculty members are encouraged with reduced teaching load, time-off and even special one day weekly leave for working on major research projects. Leave on duty is also sanctioned to the scholars who wish to present their accepted papers and articles at various National and International Conferences in the country and abroad.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The following activities are taken care of to develop scientific temper, research culture and aptitude among the students of this institution.

- The faculty members are advised to provide assignments and other tutorials in such a manner that students require referring the latest journals for solving these.
- The institution encourages every student to flourish their own ideology and innovative ideas to build projects even if on smaller basis.
- Every department of the institution organizes Seminars and Short term courses for students to motivate them in innovative work and provide them the opportunity to interact with experienced academician and industry persons. Institution also organizes technical exhibition where students participate actively.
- The students are motivated to present their technical papers in different scientific exhibitions. In institutional level, some of the good works are honored by giving them different prizes.
- Scientific excursion and industrial tours are being organized in a regular basis for the faculty members and students to groom them in involving research activities.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity etc.

The following faculty is involved in active research:

a) Faculty guiding Students:

Sl. No	Name of the faculty	Students project in collaboration with industry/research organization
1.	Prof. Suwendu Chattaraj	International Journal of Innovative Research in Science, Engineering and Technology.
2.	Prof. Saikat Pahari & Prof. Subhojit Roy	Cleared Phase-II of Texas Instrument Innovation Challenge
3.	Prof. Saikat Pahari & Prof. Subhojit Roy	Cleared Phase-I of Intel India Embedded Challenge
4.	Prof. SuwenduChattaraj	Developing of a system with which automobiles can be tracked in real time scenario, at NrXen IT Technology Pvt. Ltd.

b) Faculty engaged in individual/collaborative research activity

Sl. No	Name of the faculty	Research topic	Name of the Institution	Remarks
1.	Prof. (Dr.) Prosenjit Sen	Mathematical Ecology and Epidemiology	IEST, Shibpur	Degree Awarded
2	Prof. (Dr.) Sandi pDey	Quantum computing	Jadavpur University	Degree Awarded
3	Prof. (Dr.) Sukanya Das Chandra	Arsenic contamination and its implications	NIT, Durgapur	Degree Awarded
4	Prof. (Dr.) Dhrubajyoti Ghosh	Fuzzy logic	NIT, Durgapur	Degree Awarded
5	Prof. Dipankar Hazra	Retrieval and Analysis of Image	MAKAUT	Enrolled
6	Prof. Ramen Kanti De	Solar Energy & Refrigeration	IEST, Shibpur	Enrolled
7	Prof. Sumanta Deb	Economics of spatial configuration	IEST, Shibpur	Enrolled
8	Prof. Pampa Sen	Effect of Nano Materials in Bacterial Concrete	IEST, Shibpur	Enrolled
9	Prof. Subhojit Roy	Soft Computing, Bio Informatics	KGEC	Enrolled
10	Prof. Ranjit Barua	3D Printing	IEST, Shibpur	Enrolled
11	Prof. Saikat Pahari	Prediction Model using Artificial Neural Network	NIT, Durgapur	Yet to be Enrolled

c) Faculty completed PhD and area of Research

Sl. No	Name of the faculty	Research topic	Area of Research
1	Prof. (Dr.) Prosenjit Sen	Mathematical Ecology and Epidemiology	Mathematical Biology
2	Prof. (Dr.) Suvendu Chattaraj	Filter design for transfer alignment problem	Nonlinear control system
3	Prof. (Dr.) Sandip Dey	Quantum Computing	Computer Science
4	Prof. (Dr.) Dhrubajyoti Ghosh	Application of Fuzzy Mapping in Different Real Life Problems	Fuzzy Mathematics
5	Prof. (Dr.) Sukanya Das Chandra	Arsenic contamination and its implications	NIT, Durgapur

d) Faculty handling Research projects

Sl. No.	Name of the faculty	Research Project	Name of the organization / funding agency
1	Prof. Pampa Sen	Concrete Technology	IEST, Shibpur
2	Prof. Dipankar Hazra	Object Recognition	MAKUAT, Kolkata
3	Prof. Subhojit Roy	Unique Id of animals	KGEC, Kalyni
4	Prof. (Dr.) Sandip Dey	Quantum Computing	Jadavpur University
5	Prof. (Dr.) Dhrubajyoti Ghosh	Fuzzy logic	NIT, Durgapur

e) Faculty working as peer reviewer

Sl. No.	Name of the faculty	Name of the Journal
1	Prof. (Dr.) Prosenjit Sen	International Journal of Dynamics and Control (IJDY), Springer
2	Prof. Saikat Pahari	Applied Soft Computing, Elsevier
3	Prof. (Dr.) Sandip Dey	Applied Soft Computing, Elsevier
		Swarm and Evolutionary Computation, Elsevier
		International Journal of Computers and Applications, Taylor & Francis Online.

3.1.6 Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbuing research culture among the staff and students.

All the departments are conducting the workshops and arranging the guest lectures by subject experts drawn from industry and academia to give the best knowledge in each particular technology area. The table below gives the total number of workshops and the guest lectures conducted in the last four years for students and faculty members.

Name of Department: Architecture

Sl. No.	Topic of workshop/seminar/training etc...	Duration
1.	Architect of the Times	2 days
2.	Reliving the Past – Documentation of Harish Mukherjee Road, Kolkata	1 day

Name of Department: Electronics & Communication Engineering

Sl. No.	Topic of workshop/seminar/training etc...	Duration
1.	Advanced Electronics & Communication System, ECE Department	1 day
2.	RoboTryst-2016 ECE Department in collaboration with Robo-sapiens Technologies Pvt. Ltd. and in association with IIT; Delhi	2 days
3.	Lab View Based System Design ECE Department in collaboration with Ad lab Solution	3 days

Name of Department: Computer Science & Engineering

SL No	Topic of workshop/seminar/training etc...	Duration
1	Recent Trends in Computing	1 day
2	Android Application Development	5 days
3	RoboTryst-2016	2 days

Name of Department: Civil Engineering

SL No	Topic of workshop/seminar/training etc...	Duration
1.	Deep and Pile Foundation	1 day
2.	Advanced Technology on Modern days Construction	1 day
3.	Modern Technologies on Transportation & High way Construction	1 day
4.	Roof Top Rain Water Harvesting	1 day
5.	High Performance Concrete in Today's Construction	1 day
6.	STAAD PRO	2 days
7.	GIS SOFTWARE	Full 8 th Semester
8.	Technical Aptitude	Full 8 th Semester

Name of Department: Mechanical Engineering

SL. No	Topic of workshop/seminar/training etc...	Duration
1	Overview of Thermal Power Plant	1 day
2	Non Destructive Testing	1 day
3	3-D design and printing	1 day
4.	Overview of Industrial Design & Carbide Cutting Tools	2 days

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The following is the prioritized research areas and the expertise available with the institution:

Sl. No.	Name of faculty	Prioritized research area
1.	Prof. (Dr.) Prosenjit Sen	Mathematical Biology
2.	Prof. (Dr.) Sukanya Das Chandra	Arsenic contamination and its implications
3.	Prof. (Dr.) Dhrubajyoti Ghosh	Fuzzy mathematics
4.	Prof. Dipankar Hazra	Object recognition
5.	Prof. Kalyan Kumar Mukherjee	Sustenance of public spaces
6.	Prof. Kaustuv Das	City form in IT age
7.	Prof. Suranjana Chowdhury	Informal services in urban fringes
8.	Prof. Monita Mitra	The Women and the Family in the Indian Society
9.	Prof. Sumanta Deb	Economics of spatial configuration
10.	Prof. Debojyoti Lahari	Mathematical Ecology
11.	Prof. Somendra Nath Roy	Geology
12.	Prof. (Dr.) Sandip Dey	Quantum computing
13.	Prof. Saikat Pahari	Prediction Model using Artificial Neural Network
14.	Prof. Subhojit Roy	Soft Computing, Bio Informatics
15.	Prof. Biswajit Chakraborty	Measuring architectural design effectiveness

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to it the campus and interact with teachers and students?

Every department of the institution organizes seminars and workshops where eminent academicians are invited to present their talks. Names and expertise of academicians invited in the institute are listed below.

Sl. No.	Name of the expert	Position
1	Prof. Manasendu Banerjee	Ex. Professor of NIT Durgapur
2	Mr. Kashinath Bose	Executive Engineer of WBIIDC
3	Prof. Arun Chakraborty	Professor of IEST, Shibpur
4	Dr. Debashish De	Associate Professor-MAKAUT
5	Mr. Soumen Kanrar	Scientist - Veheretech
6	Mr. Vinayak Bandyopadhyay	Regional operation Manager –TCS
7	Mr. Rajmohan De Sarkar	Director- Ardent Computech Pvt. Ltd.
8	Mr. Cesear Taboada	Director, School of art and design, Barcelona
9	Ar. Harimohan Pillai	Eminent Academician ,Former Principal, MES, Kuttipuram
10	Ar. Anuradha Rathor	Director, Salient Design Studios, Kolkata Visiting Faculty, IEST, Jadavpur
11	Prof. Himadri Guha	Green Building specialist, Director, SS Solutions, Visiting Faculty, Jadavpur University

12	Prof. Mallika Bose	Associate Professor, Penn State University, USA.
13	Prof. Sanghamitra Basu	Prof. , IIT - KGP
14	Prof. Keshav Gangadhar	Professor, Mc Gans School of Architecture, Ooty.
15	Prof. Tapas Bhattacharya	Professor, Jadavpur university
16	Ar. Suvrendu Das	Design Head, Edifice, Kolkata, Visiting Faculty
17	Prof.SalilSanyal	Professor, ETCE Dept., Jadavpur University
18	Prof.Sayan Chatterjee	Professor, ETCE Dept, Jadavpur University
19	Prof. SusantaParui	Professor, ETC,IEST, .Shibpur
20	Dr.KamalDasgupta	Director, CGCRI, Jadavpur
21	Prof. Guruprasad Samnata	Professor, Department of Mathematics, IEST. Shibpur
22	Dr. Alakes Maiti	Assistant Professor, Department of Mathematics, Vidhyasagar Evening College

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Around 4% of the total faculty members of the college have utilized the sabbatical leave for research activities including meeting the supervisor, attending research committee meeting, paper presentations, preparation of thesis, submission of thesis, viva voce examination, etc.

- i. Prof. Pampa Sen of CE Department has attended a conference conducted by UKIERI, to present her paper at NIT, Jalandhar.
- ii. Prof. Pampa Sen of CE Department has attended a conference conducted by NBC, to present her paper at PWD Building, Kolkata.
- iii. Prof. Dhruvajyoti Ghosh has defended his PhD thesis at NIT, Durgapur.
- iv. Prof. Dipankar Hazra is attending the course work required for registration of his PhD, at MAKAUT, Kolkata.
- v. Prof. Prosenjit Sen has defended his PhD thesis at IEST, Shibpur.

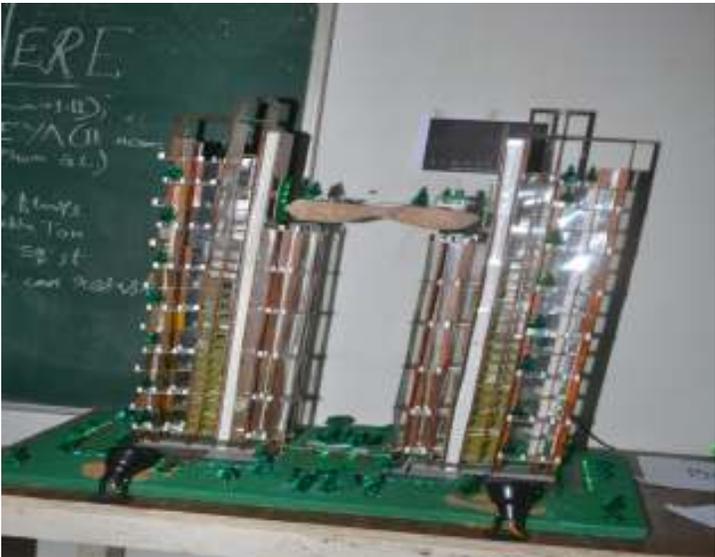
More faculty members have shown their interest in registering for PhD programmes based on this information and are spending time on their research.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness / advocating / transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

- The institute organizes various workshops, seminars by experts to bring innovative awareness to the students, to improve their practical skill and to make students industry ready.
- The institution is attempting to enhance the awareness and importance of research and applications of research findings to faculty, students and community by means of patenting.
- Students are motivated to participate in different technological programmes, conferences, contests, workshops and also Training programs organized by different institutions. .
- Faculty member and students are encouraged by paying the registration fees for the participation and presentation of their research papers at various conferences in India and abroad.
- The institution is planning to take subscription for Digital Library for facilitating their research activities.
- One day special leave per week is sanctioned to some faculty members to attend their research programs, research sessions.

List of working models which leads to proto type-incubation

Sl. No	Name of the working model with description	Photo	Outcomes
1	Hydraulic Ram pump		<p>The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.</p>
2	LED Matrix Display		<p>The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.</p>
3	Mechanical armed controlled with hand		<p>The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.</p>

4	Automatic Door Bell, Power Supply, Clap on – Clap Off		The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.
5	Atmosphere Building		This project leads to paper.
6	Green Tech Tree House		This project leads to paper.

7	Cooling Tower		<p>The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.</p>
8	Segway		<p>The students have successfully implemented this model. They are planning to introduce it to the market with reasonable price. This project leads to paper.</p>
9	Gravity Dam		<p>This project leads to paper.</p>

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

The College authority is very much inclined to research oriented projects. Apart from organizing Tech fests, Workshops, Seminars the institute spends 2 % percentage of total budget every year for research and development.

Here is the budget expenditure for R&D for two last year.

Sl.No	Academic Year	Amount Spent
1	2014-15	92,268.00
2	2015-16	133,235.00

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

Yes, The Institution has taken care, in terms of financial support to promote R&D work undertaken by the faculty members. Adding to that the research committee recommends some of the researches with contingencies, promotion of FDPs in respective areas, lab spaces for research, along with software tools required for research.

3.2.3 What are the financial provisions made available to support student research projects by students?

Yes. The institute has already financed the project models made by students in the tech fest. Research labs for each department are going to get built by the next academic year. Research labs have been planned to be equipped with state of the art equipment facility. Students are allowed to use the existing laboratory facility beyond the working hours.

We got some institution sponsored in house R&D projects. Some of those projects are shown in below table.

Sl. No	Year	Project Name	Department	Amount provided by the institution (In Rs)
1	2016	Hydraulic Ram pump	ME	2,797.00
2	2016	Automated Conveyor Belt	ME	1,642.00
3	2016	Segway	ME	15,000.00
4	2016	Atmosphere Building	CE	2,461.00
5	2016	Green Tech Tree House	CE	2,459.00
6	2016	Gravity Dam	CE	1,853.00
7	2016	Clover leaf inter change	CE	3,319.00
8	2016	Cable stayed bridge	CE	5,117.00
9	2016	Mechanical armed controlled with hand	CSE	1,242.00

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Research and development cell is composed of Principal, Vice-Principal, Engineering and Architecture faculty members. Many faculty members have already involved developing various interdisciplinary research works. Principal regularly arrange different meetings with the faculty members from various departments and encourage them to focus on interdisciplinary research activities. The college is trying its best to promote interdisciplinary research:

- Among various departments of the institution
- Collaboration with different agencies (institute and industries) in national and international label
- By sending our faculty members to different places in India and abroad

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- All the students and faculty members can utilize the resource pertaining to research activities in the institute.
- Institution has two libraries, one dedicated for Architecture and the Central Library for the other Engineering departments. The library access right now is limited during college hours.
- Library consists of updated version of books along with a number of national, international journals and e-books.
- Institute provides additional hours to access the laboratory and library, which have a high speed internet facility, during final project preparation phase.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

No.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The faculty has not yet received any research funds from various funding agency, industry and other organization.

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The Institution provides state of art infrastructure facilities within the campus. The R&D Committee members are expressly available for helping and guiding students for performing their research activities. Well-equipped laboratories with high speed internet connectivity, and other required facilities are also available for the students and faculty members for this purpose.

The list of facilities provided by the institution for encouraging the researchers is listed below.

i) Library facilities.

Sl. No.	Programme	Particulars	Titles	Volumes
1	Engineering	Book	1854	11238
		e-book	137	137
2	Architecture	Book	831	2020
		e-book	150	150

Sl. No.	Programme	Particulars	Numbers available
1	Engineering	Journal and Magazine	30
2	Architecture	Journal and Magazine	20

No. of Computers: 30 high end systems with Broad Band connectivity 33 MBPS Dishnet & Sharktel and 4 Mbps Vodafone.

Library Server : Libsys Computer Administrator

Facility : Three seminar rooms with video Projection facilities, discussion Rooms,

e-learning Material : NPTEL Videos for all courses

ii) Laboratory facilities:

List of resource available --

Electronics and Communication Engineering : p-n junction and Zenor diode trainer kit, Bipolar junction transistor kit, Field effect transistor kit, Operational Amplifier kit, Cliper and Clamper kit, Class A, Class B, Class C Amplifier kit, Digital trainer kit, Antenna trainer kit, AM, PAN, PCM trainer kit, Microprocessor trainer kit, DC shunt motor, Separately excited Generator, Servo motor, Single phase transformer.

Mechanical Engineering: Universal vibration testing apparatus, Drill machine, Pelton turbine, Francis turbine, Two stage air compressor, Welding transformer, CNC turning machine, Open channel test rig, lathe machine, milling machine, shaping machine, notch, submerged jet, Pumping series and parallel, centrifugal pump, air blower heat exchanger, Pin fin, notch, gyroscope, profile projector

Computer Science and Engineering: Oracle 10g, Windows 7, Linux, Net bean, Xilinx, Prolog, Visual studio.

Civil Engineering: Vee-bee consistometer, Compaction factor apparatus, Slump test apparatus, Vicat apparatus, Hardness collection set, Luster collection, Fraction collection, Jodhpur permeameter, Digital theodolite, Digital planimeter, Tachometers, Standard penetration apparatus, Los Angeles abrasion tester, CBR testing apparatus, Ring and Ball apparatus.

Architecture: AutoCad, Photoshop, Sketch up

Physics: Screw gauge, Slide calipers, Young's modulus, Rigidity modulus, Spectrometer, Galvanometer, LASER Source and LASER Diffraction Set up, Sodium Vapour Lamp, Digital balance.

Chemistry: Digital pH-meter, Distillation unit, Water bath, Hot plate, Hot air oven, Turbidity meter.

Humanities: ORELL Language Laboratory Software.

Mathematics: C, C++ and Matlab software available in computer lab.
Library with modern and technologically advanced amenities with respect to

- i) Books
 - ii) Print Journals & e Journals
 - iii) Technical and Non-Technical magazines
 - iv) Computers with internet connections
 - v) DVDs containing NPTEL Videos
 - vi) OPAC (Online Public Access Catalog)
- AC computer laboratories with internet,
 - High speed internet and e-learning facilities for research and project works of the scholars.
 - A pool of competent faculty members constantly motivates and guides the students in their research activities.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- The Institute procures hardware / software to facilitate research activities in all the departments.
- All the Departments in our Institution are interconnected through LAN.
- The Laboratories are maintained in perfect order with all modern equipment, at par with those of any premier Institution of the country.
- Additional working space will be provided for the new research projects as and when required.
- Necessary books will be procured in the library.
- College motivates and provides facilities to students and faculty to active participation in research works and also by conducting workshops and arranging guest lecturers with experts.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', What are the instruments/facilities created during the last four years.

No

3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

The college provides online material for students and is also in the process of entering into collaborations with various research organizations.

3.3.5 Provide details on the library/information resource center or any other facilities available specifically for the researchers?

The Library provides them with modern and technologically advanced amenities with respect to books, e- journals, e-sources as well as lives of special lectures and seminars.

- Besides the printed journals, the Library provides access to several online databases.
- It has a well maintained stock of CD-ROMs, DVDs and Project Reports.
- The Library remains open even beyond the Institute hours for the benefit of the researchers.
- It provides computers with multimedia and internet facilities.

The library has the following resources:

Sl. No.	Programme	Particulars	Titles	Volumes
1	Engineering	Book	1854	11238
		e-book	137	137
2	Architecture	Book	831	2020
		e-book	150	150

Sl. No.	Programme	Particulars	Numbers available
1	Engineering	Journal and Magazine	30
2	Architecture	Journal and Magazine	20

No. of Computers: 30 high end systems with Broad Band connectivity 33 MBPS Dishnet & Sharktel and 4 Mbps Vodafone.

Library Automation: Library maintenance is a computerized system in this institution and barcoding technology is used for allocating books and other materials.

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the college? Forex, Laboratories, library, instruments, computers, new technology etc.

The following infrastructure is used in the college on time to time basis.

- Project Laboratories
- E-learning
- Digital libraries
- High end computers with different configurations
- Seminars and Workshops

The college is trying to set up a well-equipped research laboratory. It is also in the process of entering into collaborations with various research organizations.

The following facilities have been developed in the college.

S.No	Name of facility	Developed /created	Name of the research institute
1	Attendance System	Mr.Rajesh Rakhyan	Reliable Software
2	Online Examination System	Mr.Rajesh Rakhyan	Reliable Software

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- Patents obtained and filed (process and product): No
- Original research contributing to product improvement

Sl. No.	Name of the faculty	Title of the paper	Area of improvement	Achievement
1	Prof. (Dr.) Dhruvajyoti Ghosh	A Novel approach to find the Shortest Path of a Network using A* Search Algorithm.	To find the Shortest Path of a Network.	Best paper award in National Conference on Electrical, Electronics and Computer Engineering, IEEE CALCON 2014, November 7-8, 2014.
2	Prof. (Dr.) Sandip Dey	Quantum Behaved Multi-objective PSO and ACO Optimization for Multi-level Thresholding	To develop efficient quantum inspired algorithm	Best paper award in IEEE International Conference On Computational Intelligence and Communication Networks (ICCICN 2014) hold during November 14-16, 2014 at RCCIT, Kolkata, India.
3	Prof. Pampa Sen	Experimental study on the development of the strength of Fibre reinforced concrete using Polypropylene and Jute.	Concrete Technology	When fly ash in concrete is increased, compressive strength of concrete increases up to 10 to 15% of fly-ash uses but after this strength decreases. Inclusion of fibre on concrete increases the tensile and flexural strength of concrete. Used of long fibre with same volume of fraction gives maximum split tensile strength over fibre short cut length.
		Experimental study on the development of the strength of cement paste, mortar and concrete at early stage.	Concrete Technology	Concrete and Mortar Strength Development profile has been found and applying load can be vulnerable at initial setting time. The main aim of this project is to determine the strength properties of cementations material and concrete based on the experiment. Strength development of cementitious material is very fast in between initial and final setting time of paste. Concrete and mortar take more time than cement paste for final setting. For fresh Concrete and mortar another prop should be taken but in this study the use of UPV, which is generally used in hardened concrete has been used in this study to show the different effects.

➤ Research studies or surveys benefiting the community or improving the services:
The faculty members and students of OmDayal Group of Institutions have surveyed and analyzed various fields of national and international organizations.

A Case study was conducted on repositioning of Nano by faculty members and students. The factors that were considered are:

- Stylish Exterior and Interior
- Express personality
- Status
- Pick up
- High speed

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No.

**3.4.3 Give details of publications by the faculty and students:
Department of Architecture
Academic Year-2015-16**

Sl. No	Name of the Faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1.	Prof. Kalyan Mukherjee	SA-50 seminar at CEPT, Ahmedabad	SA-50, CEPT, Ahmedabad	Exploration -Teaching Methodology
		IIA National Convention, Kolkata, Dec, 2015	IIA National Conference Issue, 2015	Life in the crucible
		JIIA, May, 2016	JIIA volume 2015’16	In Search of Research Methods
2.	Prof. Kaustuv Das	ICOMOS-International Symposium, Jeju, S. Korea, 2015	ICOMOS, 2015	Back to the Future

Some of the research works are listed below.

Academic Year-2016-17

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1.	Prof. (Dr.) Sandip Dey	Applied Soft Computing 2017	Vol. 56, pp. 472-513	Efficient quantum inspired meta-heuristics for multi-level true colour image thresholding
2.		Applied Soft Computing 2016	Vol. 46, pp. 677-702	New quantum inspired meta-heuristic techniques for multi-level colour image thresholding
3.		Quantum Inspired Computational Intelligence: Research and Applications, Morgan-Kaufmann, 2016	pp. 207-232	Quantum Inspired Multi-objective SA for Bi-level Image Thresholding
4.		Handbook of Advanced Research on Hybrid Intelligent Techniques and Applications, IGI Global 2016	pp. 349–377	Optimum Gray Level Image Thresholding using a Quantum Inspired Genetic Algorithm

5.		<i>HMRA 2018: Hybrid Metaheuristics: Research and Applications.</i> RCC Institute of Information Technology. Kolkata, India, April 10, 2018	Proposal submitted	Quantum Inspired Non-dominated Sorting Based Multi-objective GA for Multi-level Image Thresholding
6	Prof. Saikat Pahari & Prof. Dhrubajyoti Ghosh	ICCAN 2017 Advances in Intelligent System and Computing (Springer)	Accepted in Advances in Intelligent System and Computing (Springer)	An online review based hotel selection using intuitionistic fuzzy TOPSIS method
7		Fuzzy Relation Model Based Multicriteria Decision Making Model	No 14, pp 75-79	International Journal of Advanced Engineering & Management
8	Prof. Prosenjit Sen	Systems Science & Control Engineering Year 2016	Volume 4, 2016 - Issue 1, 259-269, ISSN: 2164-2583	Deterministic and stochastic analysis of a predator-prey model with herd behaviour in both.
9		Systems Science & Control Engineering Year 2016	Volume 4, 2016 - Issue 1, 320-333 ISSN: 2164-2583	A delayed epidemic model of diseases through droplet infection and direct contact with saturation incidence and pulse vaccination.
10		Neural, Parallel, and Scientific Computations	To be appeared	Dynamics of a Symbiotic Model with herd behaviour and strong Allee effect,
11	Prof. Sukanya Das Chandra	Taylor and Francis Journal	To be appeared	Assessment of Arsenic Toxicity and Tolerance Characteristics of Bean Plants Exposed to Different Species of Arsenic

**Department of Computer Science and Engineering
Academic Year-2015-16**

Sl. No	Name of the Student	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Amit Prasad Rauth	International Conference on Advances in Science and Technology - ICAST 2017 (under Computing Modelling and Informatics section), 2015		Text Processor
2		IIETA (International Information and Engineering Technology Association)	ISBN 978-1-945919-47-3	Design and evaluation of Text Pre-Processor – A tool for Text Pre-Processing
3	Subendhu Bhattacharya	International Journal of Innovative Research in Science, Engineering and Technology, 2013	ISSN (Online) : 2319-8753 ISSN (Print) : 2347 – 6710	On Some Design Issues of Electronic Voting Machine
4	Megha Didwania	International Journal of Innovative Research in Science, Engineering and Technology		Design of an Improved E-Auction System

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Suwendu Chattaraj	Fluctuation and Noise Letters, 2016	Print ISSN: 0219-4775	Utilizing time redundancy for particle filter based transfer alignment
2		IEEE xplore digital library CMI, 2015	INSPEC Accession Number: 15804091	Efficient estimation of system states of a poorly modeled 2-D target tracking system using evolutionary strategy based particle filter algorithm
3		IJRSET, 2015	ISSN (Online) : 2319 – 8753 ISSN (Print) : 2347 – 6710	On Some Design Issues of Electronic Voting Machine
4	Prof. Suwendu Chattaraj	IJRSET, 2015	ISSN (Online) : 2319 – 8753 ISSN (Print) : 2347 – 6710	Design of an Improved E-Auction System
5	Prof. Saikat Pahari	International Journal of Research in Computer Science and Management(IJRCSM)	ISSN: 2321-8088 Vol.(3),No(2)	Study of Matrix Size For Burrows Wheeler Transformation
6		International Conference on Computational Science and Engineering (ICCSE 2016)	(submitted)	A framework for personal selection process using Trapezoidal Intuitionistic Fuzzy Sets
7	Prof Dhrubajyoti Ghosh	International Journal of Applications of Fuzzy Sets and Artificial Intelligence (IJAFSAI), 2016	ISSN 2241-1240, Vol. 6	Using Induced Fuzzy Cognitive Map and Fuzzy Relation Equation to Analyze the Impact of Social Networking on Students life
8		International Journal of Computer Science and Electronics Engineering (IJCSEE), 2015	ISSN 2320-401X (Printed Version) & ISSN 2320-4028 (Online Version), Vol. 3, no. 3	The Effect of Globalization on Silk Weaver using Fuzzy Models
9		Annals of Pure and Applied Mathematics (APAM),2015	ISSN: 2279-087X(P), 2279-0888(Online), Vol. 10, no. 2	Use of Fuzzy Cognitive Map and Induced Fuzzy Cognitive Map to Analyze Real World Problem
10		International Journal of Advanced Computer Science and Applications (IJACSA),2015	ISSN 2156-5570, vol. 6, no. 7	Using Induced Fuzzy Bi-Model to Analyze Employee Employer Relationship in an Industry
11		International Journal of Applications of Fuzzy Sets and Artificial Intelligence (IJAFSAI),2015	ISSN 2241-1240, vol. 5	Analysis of Faculty Teaching based on Student feedback using Fuzzy Relation Equation

Academic Year:- 2014-15

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Suwendu Chattaraj	IEEE xplore digital library ICECE, 2014	Print ISBN: 978-1-4799-4167-4	Particle filter based attitude matching algorithm for in-flight transfer alignment
2	Prof. Dhrubajyoti Ghosh	National Conference on Electrical, Electronics and Computer Engineering, IEEE CALCON 2014		A Novel approach to find the Shortest Path of a Network using A* Search Algorithm
3	Prof. Dipankar Hazra	Contemporary Engineering Sciences, 2014	ISSN: 1314-7641 Vol.7, No.32	Heuristic and Intermediate Features Based Image Retrieval
4		Advances in Information Science & Computer Engineering, 2015	ISBN: 978-1-61804-276-7	Artificial Neural Network based Relevance Feedback for Intermediate Feature based Image Retrieval

Academic Year : 2013-2014

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Suwendu Chattaraj	Gyroscopy and navigation, 2013	Print ISSN 2075-1087 Online ISSN 2075-1109	Transfer alignment problem: Algorithms and design issues
2	Prof. Dhrubajyoti Ghosh	Annals of Pure and Applied Mathematics (APAM), 2013	ISSN: 2279-087X(P), 2279-888(Online), vol. 5	Use of Fuzzy Relational Maps and Intuitionistic Fuzzy Sets to Analyze Health Problem of Agricultural Labourers

Academic Year : 2012-2013

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Subhojit Roy	Proc. of International Conference on Electrical and Computer Systems (ICECS '12)		Forecasting time series data using particle swarm optimization
2		International Journal of Computer Applications (0975-8887) on Advance Computing & Communication Technologies for HPC Application , 2012		A Novel Approach of Genetic Algorithm in prediction of Time Series Data
3	Prof. Dhrubajyoti Ghosh	CIIT International Journal of Fuzzy Systems, 2012	ISSN 0974-9608 vol. 4, no. 2	Using Fuzzy Cognitive Maps and Fuzzy Relation Equation to Estimate the Peak Hours of the day for Transport System
4		International Journal of Modern Engineering Research (IJMER), 2012	ISSN: 2249-6645, vol. 1, no. 4	Edge Coloring of a Complement Fuzzy Graph

Academic Year: 2011-2012

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Subhojit Roy	Research cell: An international Journal of Engineering science, 2011	ISSN: 2229-6913 Vol.4	An innovative Approach of Tabu Search in Prediction of Pod Yield of Mustard Plant
2	Prof. Dhruvajyoti Ghosh	Journal of Multidisciplinary Research Academy (IJMRA), 2011	ISSN: 2249-1058, vol.1, no.6	Using Fuzzy Cognitive Maps and Fuzzy Relational Maps to Analyze Employee-Employer Relationship in an Industry

**Department of Civil Engineering
Academic Year-2015-16**

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1.	Prof. Somendra Nath Roy	Accepted for Oral Presentation in International Conference on Water, Environment, Energy & Society (ICWEES-2016) to be held at AISECT University, Bhopal during March 15-18, 2016.		New Trends for Waste Water Treatment and their Re-use using Ceramic Membrane Technology
2.	Prof. Pampa Sen	Conference Proceedings UKIERI Concrete Congress (2015)		Experimental study on the development of strength of fiber reinforced concrete [UCC-15-606]
		Conference Proceedings UKIERI Concrete Congress (2015)		Experimental study on the development of strength of cement paste, mortar [UCC-15-644]
		Indian Building Congress (2015)		Study on the strength variation of fiber reinforced concrete using Polypropylene with Fly ash

**Department of Electronics and Communication Engineering
Academic Year 2015-16**

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof.(Dr.) Sudipta Ghosh	Journal of Mechanics of Continua And Mathematical Sciences, July.2015	ISSN 0973-8975), vol.10,no.1,pp.14 51-1463,	Optimum Location of Distributed Energy Resources In Distributed Network
2		Journal of Mechanics of Continua And Mathematical Sciences, July.2015	ISSN 0973-8975), vol.10,no.1,pp.14 81-1486	Present Valu Calculation with Disimilarity in Expected Rate and Discounting Rate
3		Proceedings of Michael Faraday IET International Summit-2015	ISBN-9789383701780). Volume 1, Paper Id:205,pp.611-616	Adaptive Fuzzy Type-I Based Person Identification
4		International Journal of Advanced Computer Science and Applications, 2015	ISSN 2156 5570 Volume 6, Issue 11, pp 91-96	Image Processing based Customized Image Editor and Gesture Controlled Embedded Robot coupled with Voice Control features

5	Prof.(Dr.) Sudipta Ghosh	International Journal of Advanced Computer Science and Applications, 2015	ISSN 2156 5570 Volume 6, Issue 10, pp 205-220	A Real-Time Face Motion Based Approach towards Modeling Socially Assistive Wireless Robot Control with Voice Recognition
6		International Journal of Synthetic Emotions, May 2016	ISSN 1947-9309, vol.7,no.1,pp.148 1-1486	A Fuzzy Logic Approach in Emotion Detection and Recognition and Formulation of an Odor based Emotional Fitness Assistive System
7		International Journal of Advanced Computer Science and Applications, 2016	ISSN 2156 5570) Volume 7, Issue 5, pp 243-248	Application of Fuzzy Abduction Technique in Aerospace Dynamics
8		International Journal of Advanced Computer Applications, April 2016	IJCA-0975 – 8887, vol.139,no.11,pp. 16-18	Real time facial emotion recognition based on image processing and machine learning
9		International Journal of Computer of Engineering and Science, Feb 2016	IJES-2319 1813, vol.5,no.2,pp.41-45, Feb.2016	Artificial Intelligent Home Automation System Based on Arduino as the Master Controller
10		IOSR Journal of Computer Science, Feb.2016	IOSR-JCE-2278 8727),vol.18,no.1 , pp.39-43	A secure Image steganography based on RSA algorithm and hash-lsb technique
11		Journal of Mechanics of Continua And Mathematical Sciences, January.2016	(ISSN 0973-8975,vol.10,no.2, pp 1551-1557	A New Approach To Improve The Performance Of Position Control Of DC Servo Motor By Using Fuzzy Logic Controller
12	Prof.(Dr.) Gautam Maity	Chinese Optics Letter World Scientific	1671-7694 0218-8335	TOAD based tree-net architecture for all-optical conversion scheme from binary to its other 2 ⁿ radix based form. pp. 536-540
13	Prof.(Dr.) Sourish Sanyal	International Journal of Science, Engineering and Technology Research (IJSETR),	Volume 4, Issue 7, July 2015	Design of intelligent soft arm control,
14		Research Journal of Engineering and Technology,	Vol. 3, Issue-5, May, 2016	An article on flexible A.C. transmission system, International
15		IEEE International Conference	Held on 13/10/15, at Vancouver, Canada	Design Optimization of a Single Phase Small Transformer using Genetic Algorithm, at

Academic Year: 2014-2015

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof.(Dr.) Sudipta Ghosh	Journal of Mechanics of Continua & Mathematical Sciences, January, 15.	ISSN 0973-8975, vol.9, no.2, p p 1368-1376	Fault Detection in Engineering Application using Fuzzy Petrinet and Abduction Technique
2	Prof.(Dr.) Sudipta Ghosh	International Journal of Advanced Computer Science and Applications, June 2015.	ISSN 2156 5570 Volume 6, Issue 6, pp 86-93	An Automated Graphical User Interface based System for The Extraction of Retinal Blood Vessels Using Kirsch's Templates
3		Fuzzy Information and Engineering Fuzzy, 2015	ISSN 1616 8558, vol 7, issu 4, pp.475-498	A Type-2 Approach in Emotion Recognition and an Extended Type-2 Approach for Emotion Detection
4	Prof.(Dr.) Sourish Sanyal	International Journal of Power Electronics and Drives Systems (IJPEDS)	Vol.5, No.1, July,14, pp. 112~118 (SCOPUS indexed): http://iaesjournal.com/online/index.php/IJPEDS/issue/view	Selection of Advantageous Semiconductor Switches for Energy Efficient Induction Heated Pipe-Line Using High Frequency Full Bridge Inverter
5		International Review of Electrical Engineering	(Elsevier Bibliographic Database – SCOPUS), ISSN: 2088-8694A August, 2014	New Approach to Verify of the design of High Frequency Induction Heating Equipment on PSIM Platform
6		Journal of Basic and Applied Research International,	11(4): 262-267, March, 2015, International Knowledge Press, www.ikpress.org	Design of Grounding Reactor
7		2 nd International Conference held on Foundations & Frontiers in Computer, Communications and Electrical Engineering (C2E2-2015) commemorating 150 years of Maxwell's Equations, organized by Supreme Knowledge Foundation Group of Institutions (SKFGI) and IEEE AP-MTT Joint Chapter, Kolkata Section	9 th and 10 th Jan, 2015	Design of Control System for Autopilot of an Aeroplane

Academic Year: 2013 -2014

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof.(Dr.) Sudipta Ghosh	Journal of Mechanics of Continua And Mathematical Sciences, July2013	ISSN 0973-8975), vol.8,no.1,pp 1147-1165	Emotion Detection using Fuzzy Logic
2		Journal of Mechanics of Continua And Mathematical Sciences, January.2014	ISSN 0973-8975),vol.8,no.2,p p 1228-1241	Weather Prediction by the use of Fuzzy Logic
3		Journal of Mechanics of Continua And Mathematical Sciences, July 2014	ISSN 0973-8975),vol.9,no.1,p p 1264-1277	Fault Detection Technique of Electronic Gadgets using Fuzzy Petrinet Abduction method
4	Prof.(Dr.) Sourish Sanyal	Research Inveny: International Journal Of Engineering and Science	ISSN: 2278-4721 March, 2013 pp-54-58, Vol. 1, Issue 10	Roll Attitude Control of a Space Vehicle
5		National Conference on Emerging Technology and Applied Sciences, Modern Institute of Technology, Bandel, Hooghly,	June, 2014	Nose-wheel steering of short-haul air-craft,

Academic Year 2012-13

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper	
1	Prof.(Dr.) Sudipta Ghosh	Journal of Mechanics of Continua And Mathematical Sciences, July.2012	ISSN 0973-8975, vol.7,no.1,pp.998-1014	Optimal Solution to Box Pushing Problem by Using BBO – NSGAI	
2		Journal of Mechanics of Continua And Mathematical Sciences, January.2013	ISSN 0973-8975,vol.7,no.2,pp.1077-1093	Box Pushing Using Hybrid ABC-NSGAI Algorithm	
3	Prof.(Dr.) Sourish Sanyal	Journal of Automation, Mobile Robotics & Intelligent Systems(JAMRIS), Poland	ISSN 1897-8649 e-ISSN 2080-2145 Vol. 6, No. 4 October, 2012	Behavior Based Co-ordination of a Troop of Vehicles Targeted to Different Goals in an Unknown Environment	
4		International Journal of Emerging Technology and Advanced Engineering	ISSN 2250–2459 Vol. 2, Issue 10, October, 2012	The Motor Cycle and Rider-Modeling and Analysis of the Control System	
5		International Journal of Emerging Technology and Advanced Engineering	ISSN 2250–2459 (Online) Vol. 2, Issue 09, October, 2012	Design of Compensator for a Hydrofoil Ship	
6		International Journal of Advanced Engineering Technology	Vol. III, Issue II, April-June, 2012	Design of Attitude Control System of a Space Satellite	
7		International Journal of Emerging Technology and Advanced Engineering	ISSN 2250–2459 (Online) Vol. 2, Issue 5, May- 2012	Digital Control of Ambient Temperature in a Space-Ship	
8		Research Inveny: International Journal Of Engineering and Science	ISSN: 2278-4721 March, 2013 pp-54-58, Vol. 1, Issue 10	Stability Improvement in Automobile Driving Through Feedback Loop and Compensator	
9		International Journal of Emerging Technology and Advanced Engineering	ISSN 2250–2459 (Online) Feb, 2013	Automation in High Speed Rail-Road Transportation	
10		2nd International Conference on Computer, Control and Information Technology (C3IT-2012) republished in Procedia Technology, Science Direct, Elsevier	July, 2012 PP 72-81	Compensator Design for Helicopter Stabilization	
11		Prof. Poulami Das	International Journal of Engineering Research and Applications	ISSN: 2248-9622 Vol. 3, Issue 1, January -February 2013, pp.1552-1556	Integrated WiMAX / Wi-Fi Network Coupler & Its Performance Analysis through QUALNET 5.0.1 Simulator

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
12	Prof.(Dr.) Sourish Sanyal	Acharya P C Ray National Young Scientists' Conference organized by Presidency University and Calcutta University.	17-18 Feb, 2012	Coordination of Multi Agent System
13	Prof.(Dr.) Gautam Maity	International Conference on Advanced Computing & Communication Technologies (ACCT12), Rohtak, India, IEEE Computer Society, January 2012	980-0-7695-4640-7	Design of all-optical reversible TOAD-based Feynman and Toffoli gate. Pp 343-349.
14		International Conference on Computer, Communication, Control and Information Technology (C3IT-2012), Elsevier, February 2012.	2212- 0173	MZI based modified trinary number system. pp. 297-302
15		IEEE International Conference on Devices, Circuits and Systems (ICDCS 2012), Coimbatore, Tamilnadu, India, March 2012	978-1-4577-1545-7	All-optical Manchester code generator using TOADbased D flip-flop. pp. 497-481
16		IEEE International Conference on Devices, Circuits and Systems (ICDCS 2012), Coimbatore, Tamilnadu, India, March 2012.	978-1-4577-1445-7	Design of all-optical New gate using Mach-Zehnder interferometer. pp. 474-478.
17		IEEE International Conference on Devices, Circuits and Systems (ICDCS 2012), Coimbatore, Tamilnadu, India, March 2012.	978-1-4577-1445-7	TOAD-based all-optical Gold code generator pp. 522-526.
18		IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT'12), Karur, Tamilnadu, India, July 2012	1865-0929	MZI based HNG gate. pp. 1-6.
19		International Conference on Emerging Applications of Information Technology (EAIT 2012), CSI, Kolkata, 2012.	2212-0173	Realization of Orthogonal Codes in Optical Information Processing. pp. 297-302.

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
20	Prof. Poulami Das	International journal of computer applications (IJCA)	DOI 10.5120/10569-5661 Impact Factor: 0.82 Page:40-43 Vol: 63- no 18, Feb. 2013 ISSN(Print): 2250-1568; ISSN(Online): 2278-9448	Design of IEEE 802.16m and IEEE 802.11n Integrated Heterogeneous Network and Performance Analysis of the Network
21		International Journal of Computer Networking, Wireless and Mobile Communications; (IJCNWMC)	Impact Factor(JCC): 2.5967 Page: 11-18 Vol 3 Issue 2 Jun 2013 edition Published by Foundation of Computer Science, New York, USA	Fuzzy based modified real time polling service algorithm & performance analysis of scheduling algorithms used in WiMAX
22		International Journal of Engineering Research and Applications	Accepted Paper	'Statistical performance analysis of routing algorithms for WiMAX - Wi-Fi integrated heterogeneous network'

Book Publication :				
Sl. No.	Name of faculty	Name of Book	Publisher	ISBN/ISS
1	Prof. (Dr.) Sudipta Ghosh	Solving Real-World Constrained Handling Optimization Problems Using Gradient Repair Differential Evolution	LAP LAMBERT Academic Publishing	ISBN:978-3-659-96283-7

**Department of Mechanical Engineering
Academic Year 2015-16**

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Ranjit Barua	International Journal of Innovative Science Engineering & Technology	ISSN 2378-7965 Vol.2 Issue.11 , 2015	Motion Analysis of a Mobile Robot with Three Omnidirectional Wheels
2	Prof. Ramen Kanti De	International Conference on Advances in Mechanical Engineering and its Interdisciplinary Areas (ICAMEI 2015) during 2-4 January, 2015 at College of Engineering and Management, Kolaghat	2015	Thermal model development and performance analysis of solar greenhouse drying of Cabbage”, Proc. Int. Conf. on Advances in Mechanical Engineering and its Interdisciplinary Areas (ICAMEI 2015), TF 12, pp. 82-88

Academic Year 2014-15

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Ramen Kati De	International Conference on Advanced Materials and Energy Technology during (ICAMET2014) December 17-19, 2014 at IEST, Shibpur	2014	Thermal model development for forced convection solar greenhouse drying of Peas” Proc. Int. Conf. on Advanced Materials and Energy Technology (ICAMET 2014), E 221, pp. 153

Academic Year 2012-13

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Prasenjit Das	CAE IIT-Madras	2012	Sensitivity Analysis of Chobache Parameter for Characterization of LCF & Ratcheting

Book Publication

Author : Prof. Partha Sarathi Chattopadhyay, Assistant Professor, Mechanical Engineering

Sl. No.	Name of the Book	Publisher	Year of Publishing
1	Problems on Heat Transfer	M/s. Khanna Publisher 2B, Nath Market, Delhi 110 006	1989, 1997(2nd Ed.), 2003 (3rd Ed.)
2	Unit Operations of Chemical Engineering - I	M/s. Khanna Publisher 2B, Nath Market, Delhi 110 006	1994, 1997(2nd Ed.), 2003 (3rd Ed.)
3	Unit Operations of Chemical Engineering – II	M/s. Khanna Publisher 2B, Nath Market, Delhi 110 006	1998
4	Boiler Operation Engineering ISBN: 9781259001499 [Enjoys the Life Time Satisfaction Guarantee privilege ever awarded by Mc-Graw Hill USA]	Tata McGraw-Hill 7 West Patel Nagar New Delhi- 110008 & The McGraw-Hill Co. NY 10121 USA	1994, 2000(2nd Ed.); 2003(two Reprints); 2004 (two Reprints); 2005 (one Reprint); 2006 (one reprint) 2015 (3rd Ed.)
5	Reactions, Mechanisms & Problems in Organic Chemistry ISBN: 9788186299937	The ASIAN Books Pvt. Ltd. Darya Ganj, New Delhi 110002	2002 2004(Reprint) 2005(2nd Ed.)
6	Flowmeters & Flow Measurement ISBN: 9788186299920	The ASIAN Books Pvt. Ltd. Darya Ganj, New Delhi 110002	2005
7	Fluidized Bed Boilers ISBN: 9788175155428	GALGOTIAPublications New Delhi – 110002	2007
8	Absorption & Stripping ISBN: 9788184120332	The ASIAN Books Darya Ganj, New Delhi- 110002	2007
9	Distillation Engineering Hand Book ISBN: 9780070704237 [The first ever compiled by an Indian author]	The McGraw-Hill Education, India	2011
10	Engineering Thermodynamics ISBN: 9780198078876[Heads the top of the list of the standard texts recommended by MAKAUT for the Applied Thermodynamics paper of the 2nd yr, Mechanical Engg. students]	OXFORD UNIVERSITY PRESS, New Delhi, India	2010

**Department of Physics
Academic Year 2015-16**

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Dr. Sujoy Saha	Solid State Sciences	2015	Structural and transport properties of double perovskite Dy_2NiMnO_6
2		Journal of Alloys and Compounds	2015	Optical and dielectric study of strontium modified barium zirconium titanate ceramic prepared by high energy ball milling
3		Journal of Solid State Chemistry	2015	Crystal structure and X-ray photoemission spectroscopic study of A_2LaMO_6 [A = Ba, Ca; M = Nb, Ta]
4		Journal of Alloys and Compounds	2015	Magnetic and dielectric properties of orthoferrites $La_{1-x}Pr_xFeO_3$ (x = 0, 0.1, 0.2, 0.3, 0.4 and 0.5),
5		Journal of Alloys and Compounds	2015	Dielectric and Raman spectroscopic studies of A_2ErSbO_6 (A = Ba, Sr and Ca),
6		Advanced Scientific Letters	2015	Ground State Properties of $NdMnO_3$
7		Advanced Scientific Letters	2015	Electronic Structure of Double Perovskite Lu_2CoMnO_6
8		Impedance, scaling behavior and conduction mechanism in double perovskite Pr_2CuZrO_6 ceramic	2016	Dielectric dispersion and antiferromagnetism in $BiTb_xFe_{1-x}O_3$ (x = 1.0, 0.75),
9		Journal of Physics and Chemistry of Solids	2016	Structural studies and impedance spectroscopy of sol-gel derived $Bi_{0.9}Pr_{0.1}FeO_3$ nanoceramics
10		Solid State Sciences	2016	Dielectric relaxation of $PrFeO_3$ nanoparticles

**Department of Mathematics
Academic Year 2016-17**

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Prosenjit Sen	Systems Science & Control Engineering Year 2016	Volume 4, 2016 - Issue 1, 259-269, ISSN: 2164-2583	Deterministic and stochastic analysis of a predator-prey model with herd behaviour in both.
2		Systems Science & Control Engineering Year 2016	Volume 4, 2016 - Issue 1, 320-333 ISSN: 2164-2583	A delayed epidemic model of diseases through droplet infection and direct contact with saturation incidence and pulse vaccination.
3		Neural, Parallel, and Scientific Computations	To be appeared	Dynamics of a Symbiotic Model with herd behaviour and strong Allee effect,

Academic Year 2015-16

Sl. No.	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Prosenjit Sen	Nonlinear Dynamics and Systems Theory, Year-2016	Volume 16, Number 1, (2016) ISSN 1562-8353 Page :86-101	A Predator-Prey System with Herd Behaviour and Strong Allee Effect

**Department of Humanities
Academic Year- 2013-14**

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Monita Mitra	Indian Science Congress Proceedings,13 in Anthropological & Behavioral Sciences Book of Abstracts	2013	Mental Health of Indian Women- A Socio Cultural Perspective

**Department of Chemistry
Academic Year- 2016-17**

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Sukanya Das Chandra	Taylor and Francis Journal	To be appeared	Assessment of Arsenic Toxicity and Tolerance Characteristics of Bean Plants Exposed to Different Species of Arsenic

Academic Year- 2015-16

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Sukanya Das Chandra	Bulletin of Environmental Contamination and Toxicology Springer 2016	96:395-400 ISSN: 0007-4861 (print version) ISSN: 1432-0800 (electronic version)	Arsenic Uptake and Accumulation in Okra (<i>Abelmoschus esculentus</i>) as Affected by Different Arsenical Speciation

Academic Year- 2014-15

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Sukanya Das Chandra	International Journal of Scientific Research World Wide Journals 2014	Vol:3, Issue:7 ISSN:2277-8179	Evaluation of Arsenic Accumulation in the Vegetables okra (<i>Abelmoschus esculentus</i>) and bean (<i>Phaseolus vulgaris</i>) Grown in Contaminated Soils.

Academic Year- 2013-14

Sl. No	Name of the faculty	Publication name and year	ISSN /ISBN Nos / Volume issues	Title of the paper
1	Prof. Sukanya Das Chandra	National Conference on 'Recent Developments in Chemistry-13, (RDC-13)' during October 3-5, 2013, NIT, Durgapur.	2013	Assessment of Arsenic Contamination in the Vegetable Crop Lady's Finger Through Pot Experiment and its Impacts

3.4.4 Provide details (if any) of

*Research awards received by the faculty:

Sl. No	Name of the faculty	Research topic	Name of the institution	Remarks
1.	Prof. Prosenjit Sen	Mathematical Ecology and Epidemiology	IEST, Shibpur	Degree Awarded
2	Prof. Sandip Dey	Quantum computing	Jadavpur University	Degree Awarded
3	Prof. Sukanya Das Chandra	Arsenic contamination and its implications	NIT, Durgapur	Degree Awarded
4	Prof. Dhrubajyoti Ghosh	Fuzzy logic	NIT, Durgapur	Degree Awarded

*Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally:

Professional Body, Nationally

Sl. No.	Name of the Faculty	Name of the Professional Body	Recognition Received
1	Prof. Pampa Sen	Institute of Engineers	Chartered Engineer
2	Prof. Parthasarathi Chattopadhyay	McGraw-Hill, US	Lifetime satisfaction Guarantee
3	Prof. Saikat Pahari	Texas Instruments	'India Design Contest', 2013
4	Prof.(Dr.)Dhrubajyoti Ghosh	IEEE CALCON 2014	Best Paper Award - A Novel approach to find the Shortest Path of a Network using A* Search Algorithm
5	Prof. Suranjana Chaudhuri	AICTE	Member of Expert Visiting Committee of AICTE to visit a technical college

*Incentives given to faculty for receiving state, national and international recognitions for research contributions:

The faculty members are given the reward for presenting their research paper at national and international conferences/seminar/workshop.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The institute has taken initiative to establish industry-institute interface as follows:

- Institute-Industry Interaction Cell (IIIC) interacts with the industry personnel to understand their needs and try to assess whether the present curriculum is strong enough to handle industry need. If there is any gap found between these two, the curriculum is enriched accordingly.
- Guest faculty members from industry are invited to give lectures and share their knowledge on industry related issues.
- Placement cell of the institution is responsible to interact with industries for job related issues like placement and training of the students.
- Specific entrepreneurs are called upon to conduct seminars on their products and services.
- The alumni of our institution are attached with different reputed companies. They are the very good source of us for campus placement.
- Institute-Industry Interaction Cell meets different industry at a regular basis to make technical collaboration between the industries and our college.
- Departments periodically assess the employability objectives, which in turn help students to make themselves as per the industry standards.
- Sometimes, students may be sent for vocational training in various industries.

The composition of Institute-Industry Interaction Cell is given below.

Sl No.	Name	Designation/Company	IIIC designation
1	Prof. Satyendra Nath Chattopadhyay	Principal	Chairman
2	Prof. Gautam Bondyopadhyay	HOD,CE	Member-Secretary
3	Prof. Samiran Maity	HOD,ME	Member
4	Prof. Swarupa Ojha	HOD,ECE	Member
5	Prof. Dipankar Hazra	HOD,CSE	Member
6	Prof. Kalyan Kumar Mukherjee	HOD,ARCH	Member
7	Mr. Yashwant Ruiya	Keith Cermic(I) Pvt.Ltd.	Member
8	Mr. Ashok Jaiswal	Better Man Engineers Pvt.Ltd.	Member
9	Mr. Gautam Khanna	The Sun rolling Mills	Member

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Institute encourages faculty members to be involved in consultancy projects assignments with a shared profitability basis. This is promoted by the followings.

- The academic and other administrative workload is reduced for the faculty members who keep themselves engaged in consultancy work.
- The faculties, who are involved in consultancy work, are sponsored for attending various seminar and workshop arranged by different technology consultant by the college authority.
- These faculty members are monetarily benefitted by involving themselves in consultancy works. The college maintains a policy of sharing the income from the consultancy work.
- Industry personnel are often invited to judge the quality of the projects of final year students to gather valuable comments and suggestions for the purpose of quality improvement.
- Some good projects are selected to conduct project exhibition once in a year.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institution encourages faculty members and staffs to utilize expertise by the following:

- Faculty members are advised to target specific industries for consultancy which can be done by our existing resources and more revenue can be generated.
- The institution provides useful advertisement at different avenues.
- Other infrastructural facilities, if required are provided for this service.
- Experienced faculty members and top students from various streams of the college are involved to solve industrial problems.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

- .Quality Assessment of Building and Road Materials
- Soil Investigations
- Surveying
- Quality Control Supervision

Income generated :

Type of work	Name of Company	Income (Rs.)
Soil and Aggregate test	M/S K. N. Dadina	10000.00

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

- The income generated through consultancy will be distributed among all the persons who are involved in the work.
- Staff members share more than maximum based on the nature of work.
- The remaining amount will be utilized to buy new software and equipment.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

A committee has been formed to promote institution-neighborhood-community network. The committee consists of following members:

Sl. No	Department	Name of the Faculty member/Staff
1	Architecture	Prof. Bhaskar Chatterjee
2	Architecture	Prof. Sandipan Sinha
3	Civil Engineering	Prof. Mrinal Mukherjee
4	Civil Engineering	Prof. Subrata Halder
5	Mechanical Engineering	Prof. RanjitBarua
6	Mechanical Engineering	Mr. Debasish Banerjee
7	Electronics & Communication Engineering	Prof. Poulomi Das
8	Electronics & Communication Engineering	Mr. Siddharta Roy
9	Computer Science & Engineering	Prof. Sakait Pahari
10	Computer Science & Engineering	Prof. Bhabani Sen

Activities of the committee:

- Motivation camp for school students
- Water treatment awareness to surrounding factories in Industrial growth.
- Drinking water testing for pH, TDS, Hardness, Alkalinity etc. in Environmental/Chemistry Lab of the institute of neighbourhood area.
- Visit the neighbouring factories and make awareness.
- Conducting seminar and workshops for developing characteristics, personality among the students and developing entrepreneurial spirit.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship role?

The college involves students in groups and engages each group in various social movements / activities which promote citizenship role, in every semester breaks.

Through faculty advisors, the student involvement in various social movement activities is observed and also motivated. Faculty advisors are the one to give the required direction and support the students for participating in such activities and continuously monitor their progress in such extension activities.

Some of the following examples substantiate the claim:

Sl. No.	Activity	Name of the Student members	Name of the faculty supervisor
1	Factory visit	Subendhu Bhattacharya, Megha Didwania	Prof. Pranab Biswas
2	Child Literacy programme	Manjushree Dey	Prof. Madhuchhanda Mandal Biswas
3	Women awareness Programme & Health and hygiene Awareness programme	Marina Sultana, Manjushree Dey	Prof. Madhuchhan Da Mandal Biswas & Prof. Meghla Nath

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

- Orientation programs are being conducted for the newly students from various streams to make them aware of the goals and objectives of the college. This information is available in the college web sites.
- The institute maintains a good Industry-Interface environment throughout the academic tenure such that students get an idea on current industrial trends. Renowned guests are invited from different industry to come and deliver their speech and motivate students in line with the current industry's requirement.
- The college conducts parents meets, collects feedback from parents every year and suggestions are taken.
- The college takes feedback from students on library, academics, facilities, etc., analyses and takes their suggestions.
- The institute promotes healthy interactions amongst the students.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

No such.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

All the NSS activities till date are-

1. Conducting motivational classes for the rural school students.
2. Educating the illiterate people when they are free at home.
3. Visiting the surrounding factories and create awareness for treatment of waste water and its disposal.
4. Conducting free computer learning courses to the rural students by our college faculty during their free time like summer holidays and other festival holidays.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The Architecture department conducted a micro survey through its students on the national rural employment Guarantee programme (NREGP) to study the implementation program.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' Academic learning experience and specify the values and skills inculcated.

Objectives:

Extension activities conducted by the institute always imbibe academic learning experience, values and skills not only in students but faculty too. These activities refresh the environment of the institute as well. The major strength of this college is its ability to ensure holistic development of students to make them enlightened citizens. The college is an 'equal opportunity' institution established to provide knowledge and quality education to all sections of society. It aims to maintain modern outlook with contemporary developments without compromising moral values. To provide knowledge and quality based education to the students by inculcating moral values, scientific temper and employing state of the art technologies. It aims to pursue excellence towards creating manpower with high degree of intellectual, professional and cultural development to meet the national and global challenges.

Outcome:

- Encouraged the students to be the member of social activities forum in the college like -
 1. Our college arranged a group and send them to the various schools for conducting free classes for school children belonging to the families of poor financial background.
 2. Awareness program to surrounding Industry Growth where a large quantity of industrial sewage is released in Water bodies. Our NSS group visits the industries and motivates them to treat the waste water before disposal.
 3. Creating awareness about communicable diseases and pollution free climate to neighbouring colonies.
 4. Our Students volunteer in Swatch Bharat activities in the neighbouring colonies for sanitation awareness.
 5. Drinking Water purification awareness is done on a regular basis by our Civil Department Students and many poor people have come to our environmental lab and checked the portability of their drinking water.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The NSS community generally co-ordinates the extension programmes. They take care of orientation for students in various activities. This is done by conducting seminars of social activities and the performance and student's involvement in various activities of the college. The committees are actively involved in extension activities which promote citizenship.

- Health centre (Medical camps, Water treatment awareness)
- Literacy association
- Science association (Department of Science & Technology, Government of India)
- Waste management

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The institution maintains useful relationship with other local bodies. Road safety camp is organized in our institution with the help of west Bengal police department twice a year. The NSS works proactively according to the norms of the university. NSS personnel perform different activities such as planting trees and many others.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The service was totally self-satisfactory and till date the college has not taken the initiative for any award nomination.

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives- collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

- Industry expertise visits our college and we arrange lectures.
- Retired professors with industry experience assign projects to students which are oriented and faculty members of all the departments encourage the students to do industry oriented projects.
- Students are sent to various industries for performing summer internship and also for getting industrial training.

3.7.2 Provide details on the MoUs / collaborative arrangements (if any) with institutions of national importance / other universities /industries / Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

No such

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories /library / new technology / placement services etc.

- Globysyn technology provides training to the students every year.
- Ardent Technologies Inc. provides industry oriented training to the student once in a year.
- Every year Better Man Engineers Pvt. Ltd. provides training to the student.

3.7.4 Highlighting the names of eminent scientists / participants who contributed to the events, Provide details of national and international conferences organized by the college during the last four years.

- Every department of the institution organizes seminars and workshops where eminent academicians/scientists are invited to present their talks. Names and expertise of academicians invited in the institute are listed below.

Sl.No.	Name of the expert	Position
1	Prof. Manasendu Banerjee	Ex. Professor of NIT Durgapur
2	Mr. Kashinath Bose	Executive Engineer of WBIIDC
3	Prof. Arun Chakroborty	Professor of IEST, Shibpur
4	Dr. Debashish De	Associate Professor-MAKAUT
5	Mr. Soumen Kanrar	Scientist - Veheretech
6	Mr. Vinayak Bandyopadhyay	Regional operation Manager –TCS
7	Mr. Rajmohan De Sarkar	Director- Ardent Computech Pvt. Ltd.
8	Mr. Cesear Taboada	Director, School of art and design, Barcelona
9	Ar. Harimohan Pillai	Eminent Academician ,Former Principal, MES, Kuttipuram
10	Ar. Anuradha Rathor	Director, Salient Design Studios, Kolkata Visiting Faculty, IEST, Jadavpur
11	Prof. Himadri Guha	Green Building specialist, Director, SS Solutions, Visiting Faculty, Jadavpur University
12	Prof. Mallika Bose	Associate Professor, Penn State University, USA.
13	Prof. Sanghamitra Basu	Professor, IIT - KGP
14	Prof. Keshav Gangadhar	Professor, Mc Gans School of Architecture, Ooty.
15	Prof. Tapas Bhattacharya	Professor, Jadavpur university
16	Ar. Suvrendu Das	Design Head, Edifice, Kolkata, Visiting Faculty
17	Prof. Salil Sanyal	Professor, ETCE Dept., Jadavpur University
18	Prof. Sayan Chatterjee	Professor, ETCE Dept, Jadavpur University
19	Prof. Susanta Parui	Professor, ETC, IEST, Shibpur
20	Dr. Kamal Dasgupta	Director, CGCRI, Jadavpur
21	Prof. Guruprasad Samnata	Professor, Dept. of Mathematics, IEST. Shibpur
22	Dr. Alakes Maiti	Assistant Professor, Department of Mathematics, Vidhyasagar Evening College

- National and International Seminars / Conferences organized & the source of funding
 - a) National : 12

Sl. No.	Name of the Seminar / Event	Date	Year
1	Seminar on Deep & Pile Foundation	31.01.15	2014-15
2	Recent Trends in Computing	01.03.15	2014-15
3	Advanced Electronics & Communication System	28.03.15	2014-15
4	Android Application Development	09.07.15 to 13.07.15	2014-15
5	STAAD PRO software in association with IIT-Bhubaneshwar and Robo Edutech India Pvt. Ltd.	26.08.15 & 27.08.15	2015-16
6	Non Destructive Testing	23.09.15	2015-16
7	Reliving the Past – Documentation of Harish Mukherjee Road, Kolkata	02.07.16	2015-16
8	RoboTryst-2016	22.12.15 & 23.12.15	2015-16
9	LabView Based System Design	10.02.16, 11.02.16 & 12.02.16	2015-16
10	Insight of Modern Techniques in Civil Engineering and Sustainability	31.03.16 & 01.04.16	2015-16
11	Overview of Industrial Design & Carbide Cutting Tools	01.09.16 & 02.09.16	2015-16
12	Techniques of concrete testing, chimney design, soil investigation & solid waste management in “Urban planning & its sustainability”	04.10.2016 – 05.10.2016	2015-16

- b) International : 01

Sl. No.	Name of the Seminar / Event	Date	Year
1	Architect of the Times (2 days seminar)	26.06.16 & 27.06.16	2014-15

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and /or facilitated –

The Institute strongly pursues linkage with industry and professional bodies through AMCAT, Co-Cubes and TCS-ION online examination.

List of activities and beneficiaries:

- a) Internship/On-the-job training
- b) Summer/ Winter training
- c) Student Placement
- d) Consultancy / Extension
- e) Industrial visit

3.7.6 Detail on the systematic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

The institution organizes DST – Inspire science camp for students at regular intervals where eminent scientists and researcher’s present their talk to motivate students on innovative works.

- The institution is planning to conduct joint technical events with other organizations.
- The institution is planning to enter into MoU with other establishments to set up linkages/collaborations for academic and research activities.
- The B.Tech division is planning to construct a research laboratory with other research institute.

**CRITERION IV:
INFRASTRUCTURE AND LEARNING RESOURCES**

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

- The institution abides by the regulations of AICTE / COA in all aspects relating to the creation and enhancement of infrastructure and other facilities.
- Class rooms and laboratories in adequate numbers are well designed to maintain the ambience for an effective teaching and learning process.
- The college strives to build infrastructure facilities for research activities.
- The management constantly evaluates the existing facilities and takes steps to improve them (construction of additional build up area in recent past years confirms the intention).
- The Board of Governors of the institute takes care of the administrative problems and oversees the maintenance.
- The institution has LCD projectors, smart-class rooms, audio-visual rooms, and Wi-Fi/campus wide intranet as teaching tools for an effective learning with improved quality.
- Feedback on infrastructure and its quality of maintenance is collected from the stakeholders (mainly students).
- Realizing the need of the competitive job market, the institute regularly conducts review of value added courses, skill enhancement programs and enrichment courses, etc and creates new facilities from time to time e.g. procurement of high end core engineering software etc.

4.1.2 Details the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, specialized facilities and equipment for teaching, learning and research etc.

- Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, cultural activities, Public speaking, communication skills development, health and hygiene etc.

(a) Curricular activities:

The College is situated in an area of 3.22 acres. The college has Class Rooms which includes normal class rooms, seminar halls, Drawing halls, Laboratories, Workshops, libraries, faculty rooms, office, Principal's room, Canteen, hostels, medical facility room, free internet facilities. The campus also has separate toilets for girls and boys along with common rooms. Apart from beautiful gardens, the buildings are furnished with modern amenities such as lifts, adequate roads and safety devices like smoke alarms, fire hydrants and CCTV cameras for smooth functioning.

Detailed picture of the facilities under curricular activity:



Class Room



Library



Seminar Hall



Drawing Hall



Chemistry Lab.



Physics Lab.



Autocad Lab



Workshop



CNC Lab.



Air Conditioning Lab.



ECE Lab.



CE Lab.



Survey Lab.



Computer Lab



Fluid Mechanics & Hydraulics Lab.



Language Lab.

(b) Co-curricular activities:

The College provides avenues for developing technical skill, updating knowledge on state-of-the-art technologies and familiarisation with working of industries by conducting seminars and industrial visits through various departments of college.

<p style="text-align: center;">Industrial Visit</p>	<p style="text-align: center;">Seminars</p>

(c) Extra –curricular activities and sports:

- Facilities for outdoor games – -1 Badminton court
- Facilities for indoor games - Table Tennis, Carom, Chess
- One gymnasium
- Common rooms
- Play grounds.

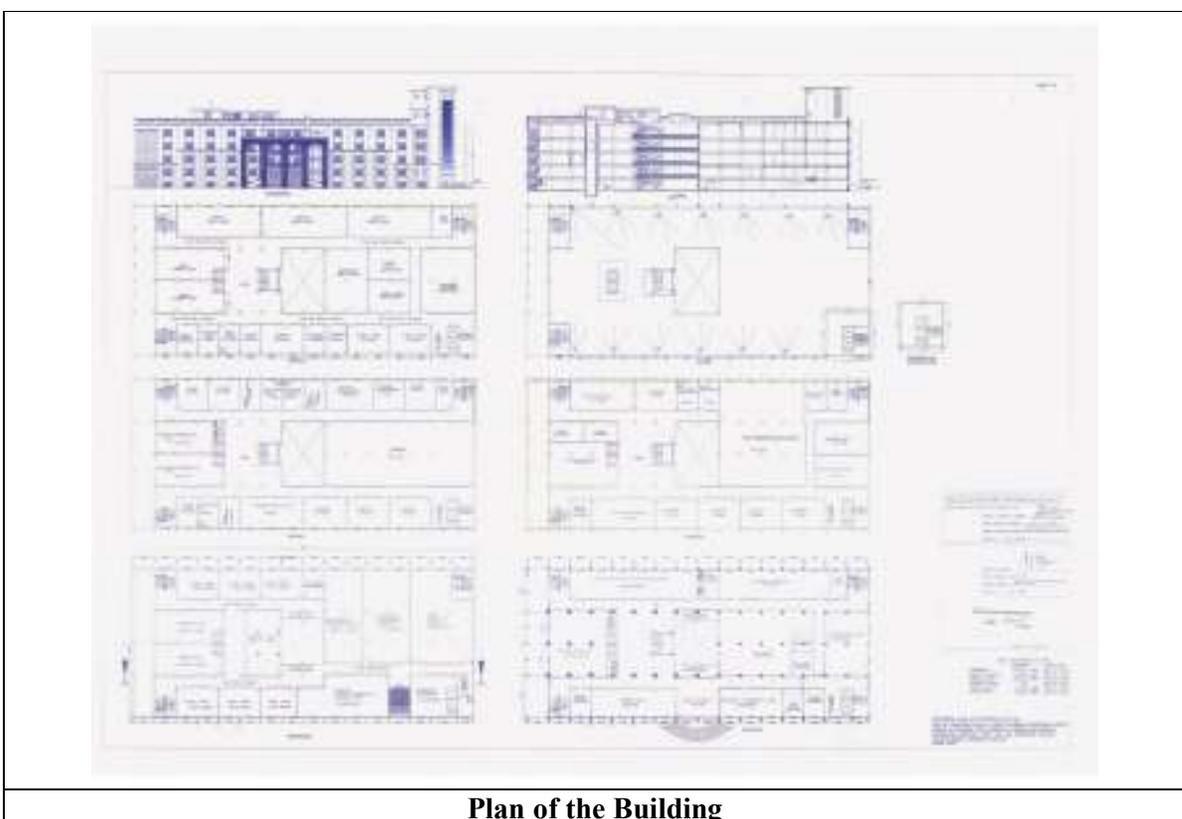
<p style="text-align: center;">Boys' Common Room</p>	<p style="text-align: center;">Girls' Common Room</p>
<p style="text-align: center;">Play Ground</p>	<p style="text-align: center;">Transport & Hostel Facility</p>

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/campus and indicate the existing physical infrastructure and the future planned expansions, if any)

Once in a year the management reviews the usage of existing physical infrastructure vis-à-vis the student strength of the institute including strength of hostel inmates. The expected growth for next 3-5 years is estimated and accordingly the additional technical & domestic requirement is planned. Once the requirement is well accepted, plans are made tuned to create/ build them in stages. Over last four years, the institute has added built up space for Architecture Department.

In addition to that the following steps are taken to ensure optimal use of available infrastructure and facilities:

- Common facilities like library, workshops and laboratories for various subjects of 1st year, computers laboratories, seminar hall etc are used by all departments.
- Libraries are open during working hours and also open on all weekdays.



Facilities/infrastructure developed/augmented to keep pace with it and the amount spent during the last four years

Year		2012-2013	2013-2014	2014-2015	2015-2016
Amount Spent (in lakhs)	Buildings	142.43	304.20	511.46	438.14
	Furniture	32.99	20.77	27.87	62.71
	Equipment	43.50	62.05	15.39	14.72
	Computer	36.25	53.95	18.62	45.24
	Vehicle	7.79	00.00	00.00	0.38
	Any others	67.25	0.22	68.61	45.11

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized

-
- facilities and equipment for teaching, learning and research etc.
 - b) Extra-curricular activities-sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.
 - c) Sports grounds for outdoor games and indoor facilities for indoor games, gymnasium, 150-230 seater air-conditioned auditorium, NSS based cultural activities, Public speaking, communication skills development, yoga class, health and hygiene sessions etc.
 - d) Infrastructure for academic Activities -
Specials Class Rooms/Lecturer Theatre, Well-equipped Labs, Centralized AC Library, Computer with Internet Facilities in departments/central computing lab etc.
 - e) Infrastructure for Co-curricular activities -
Well Equipped and air-conditioned 3 Seminar & Conference Hall with the capacity of 150-250.
 - f) Infrastructure for Extra - curricular activities and sports - Play Ground, Gymnasium for Boys & Girls, Facilities for Football, Volleyball, Badminton, Tennis.

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

There is a provision of hard surfaces and ramps in the building for the movement of the wheel chair within the college premises/ academic block to meet requirements of the differently-abled students. Their classes are organized at ground level class rooms as far as possible. Lift is provided for the differently able students in all new buildings with G+ 3 floors.

4.1.5 Give details on the residential facility and various provisions available within them:

- Hostel Facility-Accommodation available
Yes
- Recreational facilities, gymnasium, yoga center, etc.
Television with cable connection, newspaper, indoor -outdoor games, etc.
- Computer facility including access to internet in hostel
Wi-fi enabled campus
- Facilities for medical emergencies
Tie-up with a super specialty hospital in Uluberia for major emergency. Nurse is available in college campus. Qualified doctor on call.
- Library facility in the hostels
The central library is open from 10:00 am to 6:00 pm on weekdays and up to 4.30 pm on weekends.
- Internet and Wi-Fi facilities
The internet connectivity in the campus is 32 Mbps and Wi - Fi facility is also available in academic and administrative blocks.
- Recreational facility - common room with audio-visual equipment
Yes. There are common rooms with audio visual equipment for both boys and girls hostels.
- Available residential facility for the staff and occupancy
Constant supply of safe drinking water

We have guest house for staff members in college to facilitate any requirement of stay in view of official work/ for stay of visiting guest. Constant supply of safe drinking is available in the college campus as well as in the hostels (both boys and girls).

- Security
 - i) Trained Security Personnel: Adequate trained security personnel's from outsourced security agency are available in the campus round the clock and quarters and deployed at key locations.
 - ii) CCTV Cameras are installed in various Places in the campus.
 - iii) Available well laid down passages/tarred roads for movement of pedestrian/ vehicles within the campus.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

Medical Room is available in college campus with qualified nursing staff and doctor on call from super specialty hospital from the vicinity. Medical facility is available for the campus inmates. In case of emergencies transport is provided by the institute in order to take the students/staff to nearby hospitals on 24 x 7 basis.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

All the above common facilities are available in academic and domestic buildings of the campus. However, many of them are occupied in dedicated exclusive space and some of them are operated upon the office space of deployed functionaries like Coordinator IQAC, Grievance Redressal cell, Women’s Welfare Cell etc.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes. The Library Advisory Committee (LAC) consists of

S.No.	Name of the Faculty	Designation	Department	Posting
1	Ms. Sharanya Ghosh	Assistant Professor	Humanities	Coordinator
2	Mr. Abhiroop Das	Assistant Professor	Architecture	Member
3	Mr. Ranjit Barua	Assistant Professor	ME	Member
4	Mr. Sudipta Chatterjee	Assistant Professor	ECE	Member
5	Ms. Subrata Halder	Assistant Professor	CE	Member
6	Ms. Bhabani Sen	Assistant Professor	CSE	Member
7	Mr. Pramathesh Das	Librarian	NA	Member
8	Mr. Kousik Mondal	Assistant Librarian	NA	Convenor
9	Mr. Randhir Kumar	Assistant Librarian	NA	Member

Sl. No.	Name of the Student	Year	Department	Posting
1	Adrish Kundu	1st.	Architecture	Student Member
2	Atif Ahmed Khan	2nd.	Architecture	Student Member
3	Sohini Bhattacharyya	3rd.	Architecture	Student Member
4	Sanchita Chanda	4th.	Architecture	Student Member
5	Abhik Mallik	1st.	ME	Student Member
6	Avitesh Singh	2nd.	ME	Student Member
7	Koushik Dwary	3rd.	ME	Student Member
8	Suvankar Kumar Pati	4th.	ME	Student Member
9	Monalisa Manna	1st.	ECE	Student Member
10	Farhat Banu	2nd.	ECE	Student Member
11	Sounak Mondal	3rd.	ECE	Student Member
12	Anandi Dutta	4th.	ECE	Student Member
13	Aman Ghous	1st.	CE	Student Member
14	Diptesh Ghosh	2nd.	CE	Student Member
15	Bhaskar Das	3rd.	CE	Student Member
16	Sayantani Dey	4th.	CE	Student Member
17	Srishti Karn	1st.	CSE	Student Member
18	Tanay Samanta	2nd.	CSE	Student Member
19	Soumyasri Ghorai	3rd.	CSE	Student Member
20	Sourav Adak	4th.	CSE	Student Member

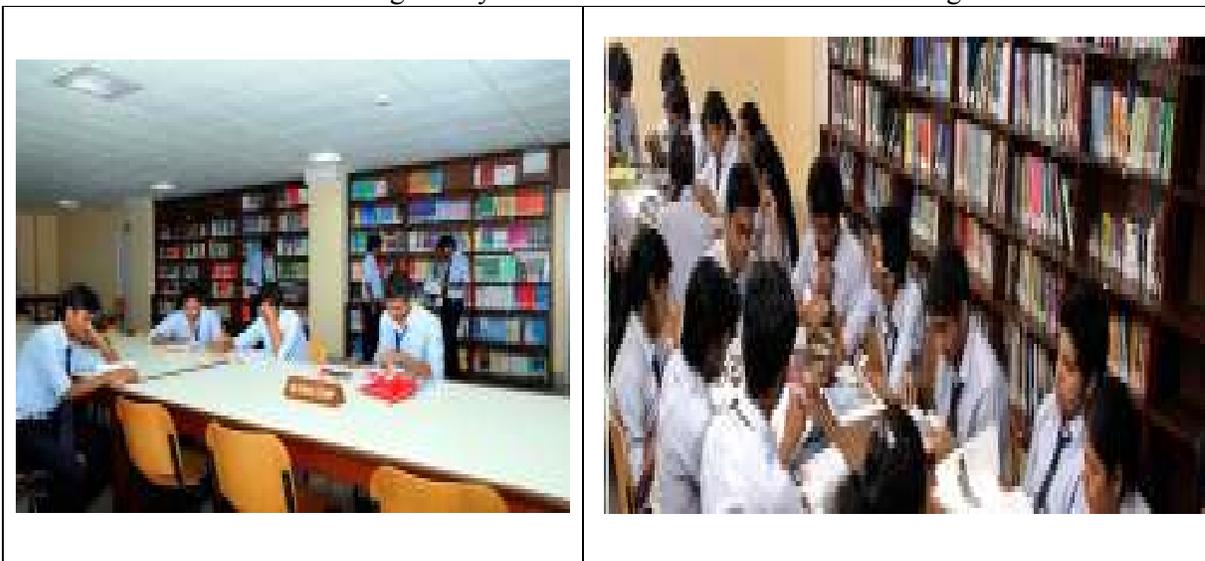
The significant initiatives implemented by the committee to render the library user friendly:

1. The committee monitors the requisition of books, journals, manuals etc., and the digital processing of information, including on-line journals.
2. Guide all Library acquisitions.
3. Monitor the students use of the library facilities and suggest measures to make the library services more user – friendly and easy accessible.
4. Ensure proper maintenance of all library facilities.
5. Discuss and place its views on any library related matter as required by the college management.
6. The committee shall take into consideration all the procurement criteria, and rules and regulations of the Library management, including cataloguing and access administration.
7. Conduct library meetings for the development of library services.
8. Initiate new services and proper implementation of the same.

4.2.2 Provide details of the following:

- Total area of the library (in Sq. Mts.): 636 Sq. Mts.
- Total seating capacity: 160+
- Working hours (on working days, on holidays, before examination days, during examination days, during vacation): 9.45 a.m. to 4.45 p.m.
- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources):

Central Library is located on the 1st floor of Main Building. Architecture Library is in 2nd Floor of Architecture Building beside Main Building. Proper signage for Books, journals, periodicals and newspapers section has been marked. Books are categorized and arranged discipline-wise in wooden racks. Separate sections for Text Books, Reference books and New Arrivals are also maintained. OPAC for browsing library resources has been installed in reading room.



4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials?

The College Library ensures its purchases of books and journals through recommendation by the departments and students after careful allocation of funds under each year Budget. Text books and reference books are selected by the faculty members & respective departments HOD's. Journals (print + online) are selected by the LAC & Principal. Books & journals requisitions are thoroughly checked by the library staff for duplication and pricing. After final approval from the Principal purchase orders are made. Our enlisted vendors and publishers supply the books etc. after considering general financial rules and quotations of respective vendors.

Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Library Holdings	2016-2017		2015-2016		2014-2015		2013-2014		2012-2013	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	299	1,19,737.02	824	2,98,188	1114	3,66,024	1795	6,40,170	2132	7,12,286.99
Reference Books	47	39,650.04	123	87,221	106	62,372	142	86,831	192	1,09,503.0
Journals/Periodicals	55	78,681	42	80,526	32	38,400	35	39,596	48	42,445
DELNET	11,500.00		11,500.00		11,500.00		11,500.00		11,500.00	
Libsys	26,450.00		25,041.00		20,343.00		21,049.00		15,829.00	

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- OPAC – Software interface between Library Collections & User can be accessed through LIBSYS OPAC installed in Reading rooms.
- Electronic Resource Management package for e-journals: No
- Federated searching tools to search articles in multiple databases: No
- Library Website: Yes
- In-house/remote access to e-publications: Yes
- Library automation: Yes
Total automation completed. Books are Bar-coded as per Accession Numbers which facilitates easy circulation and stock verification. Circulation & other housekeeping operations are done through LSease6.3 library Management software.
- Total number of computers for public access: 10
- Total numbers of printers for public access: 1
- Internet band width/ speed 10 mbps 25mbps 1 gb (GB) : 2 Mbps
- Institutional Repository: Yes
College has launched an E-Portal (intranet). Resources mainly covered sample question papers, Routines, Syllabi, Notices & Circulars, In-house publications, downloaded E-Books etc. Students and faculty members can access and downloads resources from any terminal installed within college LAN with their respective User-ID and Password.
- Content management system for e-learning: NPTEL courses are available for students and faculty members.
- Participation in Resource sharing networks/consortia (like Inlibnet) : DELNET

4.2.5 Provide details on the following items:

1. Average number of walk-ins 100 per Day.
2. Average number of books issued/returned/renewed 1100 Per Month
3. Ratio of library books to students enrolled 18:1
4. Average no. of books added during last 3 years 1000 Vols.
5. Average number of login to OPAC 50 Per day.(Approx.)
6. Average number of login to e-resources 10 per Day (Approx.)
7. Average number of e-resources downloaded/printed
8. Number of information literacy trainings organized under planning stage.
9. Details of “weeding out” of books and other materials At present we don’t have.
10. Institution Library Classes Routine for Week.

4.2.6 Give details of the specialized services provided by the library

- Manuscripts : No
- Reference : Yes
- Reprography : Yes. ILL (Inter Library Loan Service): Yes (through DELNET) [Request for ILL Online facility send through email to DELNET authority.]
- Information deployment and notification (Information Deployment and Notification): Notice Board, OPAC, Email.
- Download: Users can download their reading materials from Public access terminals.
- Printing: Yes
- Reading list/ Bibliography compilation: Yes. Library provides Reading list and selected bibliography to its users on demand.
- In-house/remote access to e-resources: Yes. E-portal within Campus through LAN.
- User Orientation and awareness: Beginning of each session user orientation program conducted by library staffs. Awareness for new services and arrivals are
- Assistance in searching Databases: Yes. Hands-on assistance provided by Library staff. DELNET Step-by-step guidelines are displayed in Notice boards.
- INFLIBNET/IUC facilities: No

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

- User Orientation at the beginning of the secession and also at the time of launching new services and facilities.
- General Circulation of Books, journals and other reading materials
- Reference and Information Services
- Assistance to locate documents in online/offline
- Current Awareness Services about new arrivals of books, journals and other documents
- Helps in project documentation work.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The institute has elevator facility. Wheel Chairs are also provided on demand. Besides the above, our library staff are always courteous to help with reading materials whenever a physically challenged person visits. They are given priority assistance

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

The Library gets regular feedback from its valuable users verbally and informally for the development of its collections and services. User satisfaction survey is conducted through separate Library Feedback form. Feedbacks also come from suggestion & complaint box. The issues are placed before LAC meeting for discussion and decisions are implemented for the betterment of library and its services.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

Number of computers with Configuration (provide actual number with exact configuration of each available system)

- Computer-student ratio : 1:6
- Stand-alone facility : Yes
- LAN facility : Yes
- Wi-Fi facility : Yes
- Licensed software : Yes
- Number of nodes/ computers with Internet facility : 315

Any other

List of System Software as on 27 th Day of March, 2017	
Sl. No.	Description
1	Windows Server
2	Windows 2007
3	Windows 95
4	Redhat Linux
5	DOS
6	Turbo C++
List of System Software as on 27 th Day of March, 2017	
1	MS Office
2	Oracle
3	Visual Basic
4	Staad - Pro
5	Auto-CAD
6	Creo
7	Orell (Language Lab)

List of Hardware:

OmDayal Group of Institutions		
Hardware Inventory Details as on 27 th Day of March, 2017		
Sl. No.	Particulars/Item	Qty.
1	Processor – Intel Pentium G2010 Q 2.80 Ghz. RAM – 4 GB, HDD – 500 GB, Mother Board – DH61WW(Intel)	34
2	Processor – Celeron Q1.60 GHz RAM – 2 GB, HDD – 80 GB, Mother Board – 945GCPE(Intel)	29
3	Processor – Celeron Q1.60 GHz RAM – 2 GB, HDD – 40 GB, Mother Board – 945GCPE(Intel)	53
4	Processor – Intel Dual Core Q2.70 GHz RAM – 2 GB, HDD – 250 GB, Mother Board – DH41RQ(Intel)	91
5	Processor – Pentium G2010 Q2.80 GHz RAM – 2 GB, HDD – 300 GB, Mother Board – DH61WW	79
6	Laptop : Processor – Dual Core RAM – 4 GB, HDD – 500 GB, Mother Board – Intel	1
SERVER		
1	RAM – 8 GB CPU – XEON Processor, HDD 120 GB x 2, Mother Board - Intel	1
2	CPU - XEON Processor, HDD – 250 GB RAM – 4 GB, Mother Board – Intel	1

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

There is a fully air conditioned central computing facility of capacity of around 60 machines. Including dedicated internet lab with 60 machines for students only (operating from 9:00 a.m – 9:00 p.m). In addition, each department is equipped with own specialized labs of 30 machines or more along with separate internet lab with 30 machines. On the whole, more than 280 PC are deployed in the institute being evenly distributed among various departments. They are integrated through campus wide intranet with access to internet is to all. These labs are utilized for conduct of lab sessions for students from various classes. Also faculty & staff utilize these facilities during lean period in addition to dedicated facility created for at their desktop.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- To increase the band width of internet facility to higher speed/100% Wi-Fi campus.
- To deploy e-governance throughout the institution through expansion of Information Management System and to create paperless office, using cloud computing technology.
- To convert all classrooms into smart and hi-tech class rooms.
- To develop e-learning facilities, digitization of resources of the faculty.
- To develop multimedia based animations/ ppt based educational modules for the various courses for better understanding of concepts and fundamentals.
- To provide video conferencing within the campus which is already available through Skype/hangouts.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year-wise for last four years)

Year	ICT Expenditure (Lakhs)
2015-16	45.24
2014-15	15.21
2013-14	99.95
2012-13	95.25

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- The individual department develops their course materials through power point presentation & animated videos for use in their lectures.
- Scheduling of smart class rooms for students in whichever department it is available.
- Audio-visual learning approach.
- Softcopy of many learning resources, lecture materials, e-books are provided to students.
- Orientation programs are offered to the nonteaching staff members with respect to computers.
- On line feedback from user of ICT resources from improving teaching- learning process is being planned to introduce.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- The institution has a large and constantly growing collection of online resources such as NPTEL, e-journals, e-books, and so on. These e-resources are accessible anywhere within the campus at any time.
- The institute understands that the teachers are to be reoriented from time to time and encouraged to understand their changing role to facilitator in addition to teacher.

-
- Additionally, the members of online courses undergo by many students does indicate the level of technology deployment as learning resources as well as changing role of the teaching facilitation.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes, college is a member of National Digital Library.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Amount spent for		Amount spent in Lakhs			
		2015-16	2014-15	2013-14	2012-13
a.	Building	438.14	511.46	304.20	142.43
b.	Furniture	62.71	27.87	20.77	32.99
c.	Equipment	14.72	15.39	62.05	43.50
d.	Computers	45.24	18.62	53.95	36.25
e.	Vehicles	0.38	00.00	00.00	7.79
f.	Any other	45.11	68.61	0.22	67.25

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- Separate departments are available for maintaining and repairing electrical lines and equipment, buildings & Civil works Transport and computing services maintenance.
- Lab equipment/s are serviced by the concerned manufacturers and service personnel/ lab technicians of departments.
- Wherever necessary Annual Maintenance Scheme (AMC) is also made use.
- Lastly, there is dedicated team of personnel of all kind of maintenance staff on the payroll of the institute, duly supervised and guided by management of the institute.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

- Some instruments in labs are calibrated.
- Detected faults are attended immediately through repair by corresponding vendors

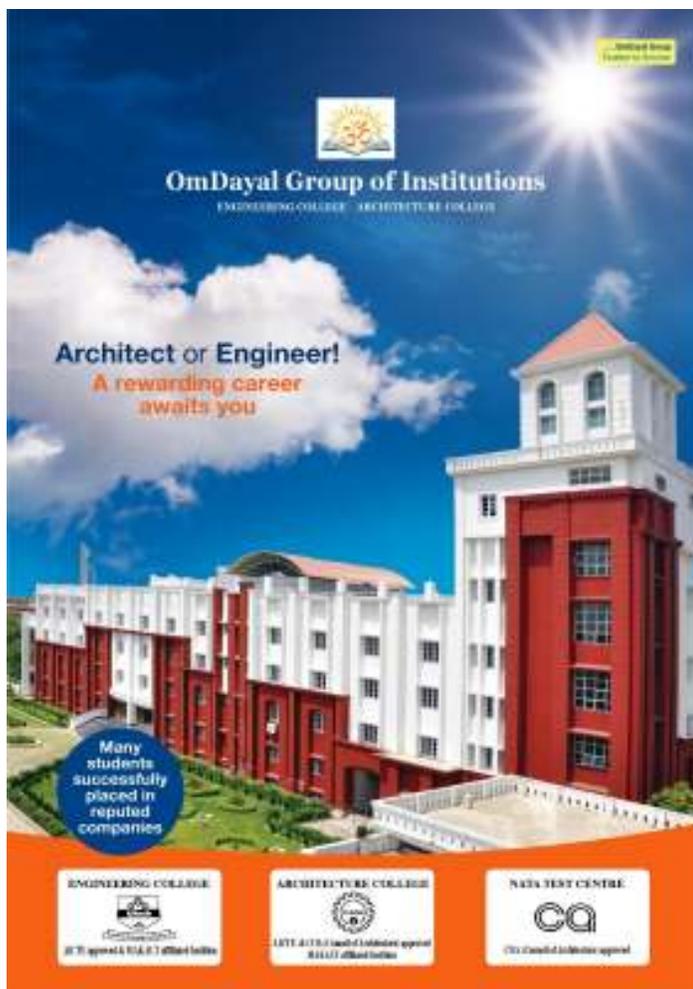
4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment/s (voltage fluctuations, constant supply of water etc.)?

- Generators, Power supply units and Power backups (UPS) are kept under separate area to prevent any damages due to unintended interference by anybody irresponsible.
- Proper information is displayed for each machine and other equipment in the laboratories for the sake of safety operation.
- During the power cuts, electrical supply is ensured in the campus by the operations of generators. Restoration time: 3 minutes. Also voltage stabilizers are provided to majority electrical equipment to stabilize the voltage fluctuation. To ensure constant water supply in house ground water supply duty treated by RO plant is kept in the institute to provide portable drinking water to students and faculty members.

**CRITERION V:
STUDENT SUPPORT AND PROGRESSION**

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?



Yes. Every year the college publish updated prospectus well in advance. It includes all the necessary information about admission into the college. The Prospectus contains the following information:

1. The profile of the college
2. Vision and mission statements of the Institution
3. Details of infrastructure
4. Programmes offered
5. Eligibility criteria
6. Facilities available
7. Training & Placement
8. Admission process
9. Fee structure

The information is also available in website: www.oders.in

Yes, college has an independent student support system for mentoring students since the inception of the college and is committed to high standards of academic excellence. The institute constantly strives to enable individuals to traverse through learning, achieve success and go beyond their success to become life-long learners such that adversities transform into

opportunities for excellence. We seek to develop in students, the ability to work passionately, creatively, effectively and tirelessly for the betterment of our country and of the humankind at large.

1. The institute has well organized class rooms, well equipped laboratories and highly qualified, experienced faculties to provide the students with the best academic ambience and support.
2. Each faculty member is allotted to monitor in academic curricular and cocurricular activities.
3. The faculty members help the students by suggesting proper books of reference, providing e-books, e- journals or any other material that are of great help for the student. They also do counseling as and when required to motivate the students.
4. Parent- teacher meetings are conducted to review students' academic progress with parents and suggest them to improve student academic performance/learning aspects.
5. Students who are academically weak of a particular class get additional care and remedial class facility from the faculty members. Additionally, the Faculty members are available for the students at any time beyond the class hours. Tutorial classes taken according to the timetable by the faculty members.
6. The institute has a well enriched library with printed volumes of books and journals of various subjects.
7. The institution provides printed manual prepared with detailed and technical study material that helps in enhancement of knowledge and better understanding
8. Unit tests and class tests are conducted for the students of first semester onwards. The evaluated answer scripts of the internal examinations are shown to the students for improving their performance.
9. The institute provides free Wi-Fi facilities to the residential students.
10. Students are guided for seminar presentation for their enhancement of communication skills and removal of stage fear along with development of confidence in public speaking.

5.1.2 Specify the type, number and amount of institutional scholarships/freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Merit scholarships are given to students by the institute to promote competitiveness among them.

The schemes are:-

- Full Tuition Fee waiver scheme is being implemented as per guideline of AICTE, of the steam wise approved intake.
- Up to 10% of the steam wise approved intake is being awarded Half free studentship as per the guideline of Govt. of West Bengal.
- This is in addition to scholarship schemes offered by Department of Social Welfare Govt. of India/West Bengal is also available for students belonging to SC/ST and OBC categories:

Stream	Year			
	2012-13	2013-14	2014-15	2015-16
CE	6	2	3	2
ME	0	2	1	1
ECE	0	0	0	0
CSE	0	1	2	1
B.Arch.	2	4	5	3

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Students belong to economically weaker sections of the society receive financial assistance (fees reimbursement) given by State Govt. Around 10% students of the college get benefit from these scholarships. Apart from this, 20% of students receive income/ merit based scholarship from state/

central govt. sponsored agencies like CBSE, AICTE, parents belonging to Bank's, PSU's, Railways, Defence etc.

Stream	Year			
	2012-13	2013-14	2014-15	2015-16
CE	6	2	3	3
ME	3	3	3	3
ECE	2	2	2	3
CSE	3	3	3	3
B.Arch.	3	4	4	3

5.1.4 What are the specific support services/facilities available for:

a) Students from SC/ST, OBC and economically weaker sections

- ✓ The students who belong to SC/ST, OBC and the economic weaker sections are given admission under state govt. reservation policy.
- ✓ Further they are financially supported by state govt. through reimbursement of fees/scholarship, additional 6 books per semester from college library etc.
- ✓ These students are provided every possible help during their stay in the college at large.

b) Students with physical disabilities

- ✓ Entry in Academic building/ hostels through ramp and lift facility is available in most of the buildings.
- ✓ Medical and emergency Ambulance facility is also available.
- ✓ Information on various scholarships and funding agencies are given.
- ✓ Understanding and helpful faculty & staff.
- ✓ One to one help in library and canteen.
- ✓ Allotment of hostel on priority basis through separate roasters.

c) Overseas students

The institute does not have any NRI student on its strength.

d) Students to participate in various competitions - National and International:

Permission is given for students to participate in various competitions. Full reimbursement for Registration fee, TA/DA for winners is facilitated. Partial/ Full sponsorship of project hardware/ software cost is provided.

e) Medical assistance to students: health centre, health insurance etc:

College is having linkage with hospital, Uluberia. Ambulance is available in the college for 24 hours to meet the medical emergencies of residents of the campus. Medical centre, nurses and part-time doctors are available in the campus.

f) Organizing coaching classes for competitive exams:

The college regularly conducts Personality Development Programme/ soft skill classes/ aptitude classes for the preparation of campus placement. Special coaching classes are conducted for examinations like GATE.

g) Skill development (spoken English, computer literacy, etc.):

To enhance the communication skills of the students, use of special software (ORELL) equipped with audio facility is provided. We organize special classes to teach languages like C, C++, JAVA.

h) Support for "slow learners":

Every faculty act as a mentor for a group of slow learners. Regular counselling hours are conducted to identify their difficulties, to counsel and to motivate them. Remedial courses are conducted. Supplementary materials are provided.

i) Exposures of students to the institution of higher learning/corporate/business house etc.

In-plant training, industrial visits and participation in conferences/ seminars/ tech-fests are promoted. Participation in extracurricular activities like debates, Quiz and hands on training like workshops organized by other institutions.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institute has a separate Entrepreneurship Development Cell (EDC) under which camps, seminars, workshops, industry visits are organized.

The committee members are:

1. Prof. Pranab Biswas (Nodal Officer)
2. Prof. Samiran Maiti
3. Prof. Bhaskar Mukherjee
4. Prof. Swarupa Ojha
5. Prof. Monita Mitra

The EDC facilitates starting of enterprises in thrust areas and supports student for training and any entrepreneurial initiatives/ startups. In addition, EDC also supports & nurtures innovative ideas and creativity through dissemination of knowledge & technology conferences and training. In the year 2014, a three day 'Entrepreneurship Awareness Camp-2014' was arranged on entrepreneurship skill development from 20th to 22nd March. Besides the Entrepreneurship Development Cell, the Institute enhance students' awareness and motivates students towards entrepreneurship development.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extra-curricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

Students are always inspired by the HODs and faculty members to participate in the Institute's Annual Sports and events organized in other Institutes / Universities. The Institute also encourages students to actively participate in games, quiz competitions, debates, extempore and different cultural events at the Institute and outside. Sports and Games Committee and Cultural Committee are formulated to enhance student participation in extracurricular and co-curricular activities such as sports, games, quiz competitions, debates, cultural activities etc.

- There are separate common rooms for boys and girls. They are equipped with table tennis, chess, carom board etc.
- Sports materials for football, cricket, badminton, chess, carom, table tennis, etc are provided by the College
- Food packets are generally provided to the participants [students] on the day of Annual Sports
- The overall championship among the departments in sports meet is honoured with trophy in the annual day celebration.
- The institution organizes a cultural fest for the students to showcase their skill in music, drama and choreography. Special guests/celebrities are invited to inspire students in such activities.
- Due consideration is given in respect of attendance for students participating in such activities.
- Special classes are arranged for their absence due to the competition.
- Internal tests are taken separately if needed for the participating students.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, GATE/ CAT/ GRE/ TOFEL/ GMAT/ Central/ State services, Defense, Civil Services, etc.

Through effective career guidance and counseling, students are guided on a regular basis to help them appear National and International level competitive examination such as GATE, CAT, GRE, TOFEL, GMAT, Civil Services, Defense services, and Central / State services.

- The departments encourage students and provide guidance & coaching classes for taking competitive examinations like GATE/CAT etc
- Large number of books on career guidance and competitive examinations are available at Central Library

- Students are also guided through external examination services by honing in AMCAT and Co Cubes.
- Language lab has interactive software like ORELL which enables the students to prepare for TOEFL
- The placement and training cell of the institution organizes seminars and workshops on soft skills to orient and train the students towards career and higher education.

The number of students who qualified in competitive exams is as follows:

Name	Competitive Examination	Year of Passing
Sk. Sharuk Mohammad (ME)	GATE	2017
Saptarshi Majumdar	MAT	2017
Arindam Hazra	NICMAR	2017
Sk. Samirul	NICMAR	2017
Ranajoy Bhattacharjee	NICMAR	2017
Souvik Dhara	NICMAR	2016
Anupam Chanda	NICMAR	2016
Tanmoy Maity (CE)	GATE	2016
Anibrata Chatterjee (CE)	GATE	2016
Pulak Naskar (ME)	GATE	2015
Kamal Gharami (ME)	GATE	2015
Arnab Singha Roy (ME)	Defense service	2015
Kundan Giri (CSE)	GATE	2015
Sayak Ckaklader (CSE)	GATE	2015
Sayantana Banerjee (CE)	GATE	2015
Pratik Dutta	NICMAR	2015
Sourav Bera	NICMAR	2015
Bhen Prakash Roy	NICMAR	2015
Supriyo Dutta	NICMAR	2015
Ashish Mishra (CSE)	CAT	2015
Neha RoyChowdhury	MAT	2015

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Academic counseling:

Faculty members are selected as course coordinator for all the streams year wise to monitor the academic progress. Corrective measures are taken if any aberration is found. Students who are academically weak in a particular subject get additional care and remedial class facility from the faculty members.

Personal counseling:

Faculty members are appointed as Mentors who on a regular basis interact with the students to understand their problem if any. An exclusive counselling and guidance is arranged for the newly admitted students through orientation programs. This type of activities are undertaken by most of the Departments, especially by Humanities Department.

Personal counselling topics include:

- Stress management
- Communication skills
- Building self esteem
- Developing confidence
- Personal grooming and hygiene
- Developing assertiveness skills
- Anger management
- Dealing with depression
- Coping with grief and loss
- Managing anxiety

- Overcoming procrastination
- Managing a crisis
- Handling ragging and gender issues

Career counseling:

- ❖ The TPO along with other members of this cell conduct regular training programs to guide the students in getting placements.
- ❖ The college has a dedicated team of English Faculty members for developing Soft Skill of the students. Weekly two classes is used by SDP cell for each class to help students in improving their soft skills.
- ❖ Training & Placement Cell regularly conducts Group Discussions, Mock interviews, aptitude tests to improve the skill of the students.
- ❖ Students are also guided through external examination services by honing in AMCAT and Co Cubes
- ❖ The Language lab has interactive software like ORELL which enables students to improve their communication skills.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes. The college has a well-established Career Guidance and Training & Placement cell consisting of the following members:

1. Prof. Satyendra Nath Chattopadhyay
2. Colonel P. K. Dutta (Retd.)
3. Ms. Sudeshna Seal
4. Sri Saurav Paladhy
5. Prof. Samiran Maity
6. Prof. Gautam Bondyopadhyay
7. Prof. Debansu Jana
8. Prof. Dipankar Hazra
9. Sri Aniruddha Halder – ME 4th year
10. Sri Anurag Bhowmik – ME 4th year
11. Sri Ranajoy Bhattarcharjee – CE 4th year
12. Sri Amartya Sarkar - CE 4th year
13. Sri Abir Sinha - CSE 4th year
14. Sri Anirban Banerjee - ECE 4th year

The activities include:

- Companies from all over India are invited for campus placements.
- Conducting Campus Recruitments
- The cell is making all efforts in developing the employability skills of the students through different activities like Personality Development Programs, Soft skill programs.
- Arranging Guest Lectures from Resource Persons from Industry to deliver current Knowledge to students.
- Arranging Industrial visits, In-plant training and Industry projects to impart practical Knowledge and industry practices.
- Conducting Soft Skill Programmes to students by Industry Experts.
- Conducting Mock Group Discussion and Mock Interview.
- Well-structured placement training programs by professional training bodies namely

AMCAT & CoCubes are conducted for the 1st year to 3rd year students.

Stream	Essel Kitchenware	Excelize	Green More	Maintech Technologies	QH Tailbros Ltd.	VCIVIL Net	Whiztech Labs	Xpertest Tech	Xplora Soft	Amtek Auto	REC	Indusind Bank	TCS	Insync	Grimpack	Infosys BPO	Grand Total
CE		6	11			9	8				2	1					37
CSE				7				5					1	1	1		15
ECE				2				3	3						1	1	10
ME	10		1	1	14					7							33
Grand Total	10	6	12	10	14	9	8	8	3	7	2	1	1	1	2	1	95

Placement Status 2015-16

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes. The college has a structured Grievance Redressal Committee with the Grievance Redressal committee members. All the heads of the departments are responsible for resolving student grievances under the Principal's guidance.

The committee members are:

1. Prof. Dr. Prosenjit Sen
2. Prof. Suranjana Chaudhuri
3. Prof. Swarupa Ojha
4. Prof. Pranab Biswas
5. Prof. Srijan Mukherjee
6. Prof. Aniruddha Sarkar
7. Mr. Debasish Banerjee
8. Mr. Monirul Mondal
9. Security Supervisor (On Duty)

The grievances redressed in the last four years are:

- ❖ Regarding food in the canteen: By changing the contractor and improving the quality of the food.
- ❖ Overcrowding in the canteen is resolved by providing additional space and sitting arrangements.
- ❖ Need for extra academic input is supplemented by special coaching/tutorials in the specific subjects.
- ❖ Rash driving of the college buses is resolved by proper counselling.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

A Women Welfare / Sexual Harassment Eradication cell has been constituted of the following members:

- 1) Prof. Dr. Sukanya Das Chandra
- 2) Prof. Pampa Sen
- 3) Prof. Monita Mitra
- 4) Prof. Swarupa Ojha
- 5) Prof. Suranjana Choudhuri
- 6) Prof. Piyali De
- 7) Girl's Hostel Warden (On duty)

Functions:

- The College is highly sensitive to the issues of gender equality, women's rights and the need to prevent sexual harassment.
- To create awareness about women's welfare & promote their empowerment.
- To improve interpersonal skills & develop confidence.
- To create an environment of equality & amity.
- There have been no cases of sexual harassment in the institution so far.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The Anti – ragging committee is established to maintain a strict vigil. The member representatives of the committee including student representatives for 2016-17 are as follows:

Head of the Institution	Prof. Satyendra Nath Chattopadhyay	Principal
Administrator	Col. P. K. Dutta	Registrar
Police Personnel	Officer-in-Charge, Uluberia Police Station	
Civil Personnel	Mr. Egra Mondal	
Local Media Personnel	S. A. Md Mohasin	Journalist
Non Government Organizations Personnel	Mr. Rushav Tolia	
Faculty Member Representative	Prof. Kalyan Mukherjee	HoD, Arch.
	Prof. Gautam Bondyopadhyay	TIC, CE
	Prof. Dipankar Hazra	TIC, CSE
	Prof. Debanshu Jana	TIC, ECE
	Prof. Samiran Maity	TIC, ME
	Prof Monita Mitra	TIC, HUM
	Dr. Prosenjit Sen	TIC, MATH
	Prof Srijan Mukherjee	Asst. Prof, CE
	Prof Swapan Majumdar	Asst. Prof, ECE
	Prof Suranjana Chaudhuri	Asst. Prof, Arch.
Mr. Debasish Banerjee	T. A, ME	
Parents Representative	Mr. Mesbahul Middy	Parent
1st Year Civil Engineering Student Representative	Suman Chatterjee	Student
2nd Year Civil Engineering Student Representative	Subhajit Basak, Soma Paul	Student
3rd Year Civil Engineering Student Representative	Nawal Singh, Saswati Dey	Student
4th Year Civil Engineering Student Representative	Arindam Hazra , Arunima Manna	Student
1st Year Mechanical Engineering Student Representative	Tanmoy Paul	Student
2nd Year Mechanical Engineering Student Representative	Koushik Dwary	Student
3rd Year Mechanical Engineering Student Representative	Amit Kumar Das	Student
4th Year Mechanical Engineering Student Representative	Laxmi Shree Mondal	Student
1st Year Computer Science Engineering Student Representative	Soumi Das, Ankan Ghosh	Student
2nd Year Computer Science Engineering Student Representative	Akash Nayak.	Student

3rd Year Computer Science Engineering Student Representative	Varsha Das	Student
4th Year Computer Science Engineering Student Representative	Akash Naskar	Student
1st Year Electronics and Communication Engineering Student Representative	Farhat banu	Student
2nd Year Electronics and Communication Engineering Student Representative	Soumyajoti Mukherjee, Avik Sarkar	Student
3rd Year Electronics and Communication Engineering Student Representative	Sayanita Biswas	Student
4th Year Electronics and Communication Engineering Student Representative	Mrinmoyi Manna	Student
1st Year Architecture Student Representative	Rajdeep Majumdar, Aritrika Kashyap	Student
2nd Year Architecture Student Representative	Debleena Nath	Student
3rd Year Architecture Student Representative	Sarajit Bhowmik	Student
4th Year Architecture Student Representative	Mallika Sasmal	Student
Non Teaching Staff Representative	Mr. Saurav Paladhy	Admin Staff

- The members of the committee are available at campus, bus stops, railway station & at main centers to look after the students against ragging.
- This committee is meant for taking care of issues regarding ragging and conducts meetings to create awareness among students.
- Pamphlets are displayed throughout the campus as per the directions of Supreme Court and University.
- Till now there are no major ragging issues registered. Minor issues are disposed off by the Principal, HoDs, senior faculty members through counseling the students in the presence of their parents.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

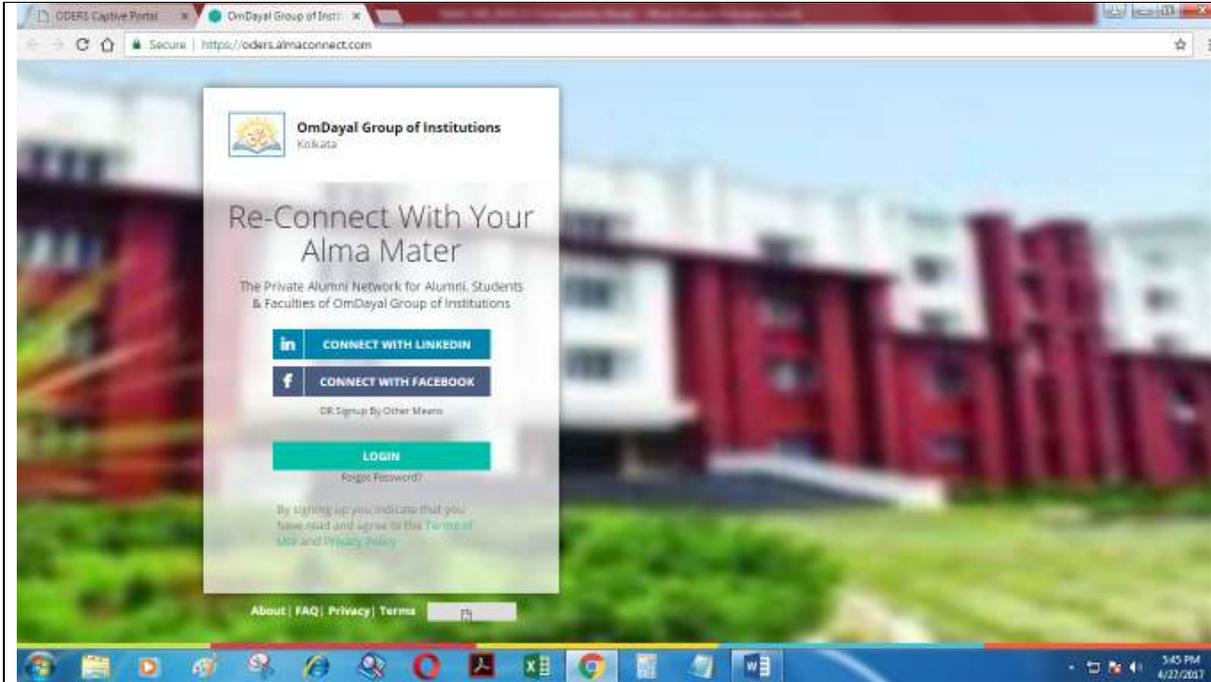
All the welfare schemes/incentives available for students are listed in college and hostel manual.

Few incentives are listed below:

- Merit rewards are awarded to meritorious students based on MAKAUT result.
- Concessions are given in transport fee.
- Tuition waver scheme are given to students belonging to lower income group families.
- Special concession is given to minority students.
- Railway concession is available through the Institute.
- SC/ST Cell in the Institute provide the students belonging to these categories with books
- Student counselling services.
- Supporting facilities for getting educational loan.
- Arrangement of remedial teaching for slow learners.
- Recreational and Cultural Activities such as Tech Fest, Annual Cultural Meet, etc.
- Adequate Sports activities at the Institute as well as in Hostels.
- Educational Tour/Industrial Visit.

5.1.14 Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

A new alumni association has been constituted by college. No major activity is initiated so far.



5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression	2013-14(%)	2014-15(%)	2015-16(%)
UG to PG	05	20	18
Employed			
• Campus selection	80	60	55
• Other than campus Recruitment	05	20	27

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (course wise/batch wise as stipulated by the university). Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Department wise successful students :

Course	2013-14(%)	2014-15(%)	2015-16(%)
ECE	100%	100%	100%
CE	100%	99%	100%
CSE	99%	100%	100%
ME	100%	100%	98%

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- Teaching methodologies: The academic calendar is strictly followed at the Institute and the faculty members are teaching according to the course plan. Approximate coverage of the syllabus of a subject is almost 100% in each semester. The faculty members are taking the attendance regularly before or after the class. After month completion, the department identifies and motivates the students with lower attendance after accumulating all attendance of all subjects of every semester. At the end of each semester, teacher feedback of all subjects is taken from the students, assessed properly and area of improvements is identified. Most of the teachers in their department are taking similar subjects for at least 3 consecutive years to enhance domain knowledge and teaching capabilities.
- Laboratory experiments: For any technical education courses, hands on laboratory experiments are very much important to understand the theory and its engineering application. All the departments have clear guideline to be followed about conducting laboratory experiments and documentation (may vary course wise). On an average 10-12 laboratory sessions (3 classes in a row) are scheduled for each course in each semester. The signed copies of lab report are returned to the students after comment.
- Encouraging students: The faculty members and all heads of the department are taking various types of initiatives to encourage students. A few initiatives and implementation details for encouraging the students are given below:
 - ❖ *Reward*: 'Best Student Award' is given to a student who is academically best from each department from our institute.
 - ❖ *Participation in workshops, short term course, technical fest, national level competition and conferences*: The students are always encouraged to participate in various workshops, or to present papers in conferences to increase their self-confidence and satisfaction levels. They are also advised to take part in Tech-fest or inter college competitions to enhance their zeal to learn more.
- Initiatives related to industry internship and summer training:

The institute is taking initiative to encourage B.Tech, 3rd year students to undergo industry internship/summer training as a part of our standard course curriculum after 6th semester. Some of the students are interested about research based summer training and go for IITs, NITs, other

reputed government, non-government organizations mainly based on individual /faculty references.

5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout?

Characteristics:

All the departments identify a 'weak' student whose grade are less than 60%, and failed in more than 40 or 50 percent of their subjects in a given year, and/or has lost a year or more. These students are generally believed not to have attended classes regularly. Some have got admission through management quota.

Low Self-Confidence or Interest:

In general, poor performance is found to arise from a complex of factors in the individual student's college experience, only some of which exist prior to entry. The most important among student factors is reported to be a lack of self-confidence, lack of knowledge in the medium of instruction or application due to lack of interest in the course. These students perhaps do not communicate, do not seek help, and/or have difficulty adjusting to the college environment.

Mentoring gives helpful feedback: The department has assigned one faculty member for every 30 students. This Faculty Adviser/ Mentor establishes a close relationship with each student, orients them to college practices, follows their progress regularly (weekly) and guides them throughout the four-year course.

Extra classes or remedial classes and tutorial classes: The department arranges extra classes/remedial classes especially for the lateral entry students and identifies weak students. Other than that, most of major subjects are having tutorial classes in course curriculum once in a week.

5.3. Students Participation and activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

College strongly believes in the holistic development of students. With a view to give space for multi-dimensional growth and achievement, the students are provided with facilities like games and sports, cultural activities, recreational avenues for acquiring and exhibiting their talent.

- Annual Sports is organized for the students in the month of February each year.
- Tech Exhibition
- Annual Cultural Fest
- Annual Freshers' Welcome
- ❖ Tech Exhibition VOYAGE - 2016 successfully conducted (29th – 30th February).
 - Approx 600 students participated in different events as organized (Dept. level).
 - 500 students were involved in Project Exhibition (Institute level).
 - Out of 25 projects received 19 were finally demonstrated by students.
 - The other events are:
 - a) Innovative Business Idea Presentation
 - b) Debate
 - c) Group Discussion
 - d) Photography exhibition cum competition etc.
- ❖ Annual Cultural Fest- Ullash 2016 – Annual Cultural fest was successfully organized on 14th May, 2016 extending for a period of two days.
400+ students have participated in different events organized at Dept/ Institute level.
Cultural competition on the following events is also organized.
 - Bengali Song
 - Hindi Song
 - Singing competition
 - Extempore
 - Recitation
 - Face painting
 - Theme Drawing
 - Plays
 - Dance
 - Band performances by Lakkhicharra and Underground Authority
- ❖ Annual Freshers' Welcome – 2015 & 2016:
The institute regularly organizes Freshers' Welcome. On 27th October, 2016, the latest Freshers' Welcome took place and for 2015-16 it was held on 24th September, 2015.
- ❖ Annual Sports Meet -2017: The annual sports meet was held on 13th -14th February, 2017. Various events were organized and winners were rewarded on spot.
- ❖ Annual Sports Meet -2016: The annual sports meet was held on 27th -28th February, 2016. Students as well as faculty of the institute participated in various games
Events for students (in last two years)
 - Table tennis
 - Cricket
 - Badminton
 - Football
 - Carom
 - Chess

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

- ❖ Sri Ritwik Das participated in ‘Bridge Design Challenge’ in association with Technex’15, IIT (BHU) Varanasi organized by Civil Simplified at Kolkata on 5th Jananuary’15 and awarded with ‘Best Design’.
- ❖ Mr. Subendhu Bhattacharya, Ms. Megha Didwania (3rd year students) guided by Mr. Suvendu Chattaraj published papers in ‘International Journal of Innovative Research in Science, Engineering and Technology.
- ❖ Mr. Ashes Das won IIA WB chapter Scholarship Award for 2014.
- ❖ Mr. Soumendra Mazumder was awarded 3rd prize in the Best Cartoonist category at Indian Comics Fandom Award
- ❖ Ms. Subhasri Bose presented the poster for a special report on Women Power for the daily, The Telegraph, Kolkata.
- ❖ Mr. Subhojit Bagchi won the NDTV – DAA Scholarship.
- ❖ Mr. Ashes Das participated in KONKRUST sponsored by SRMB Steel and won the first position.
- ❖ Mr. Arka Bhoumik participated in KHHITIJ 2017 (IIT Kgp Tech Fest) and became Finalist in Robotics category.
- ❖ Subhrrarup Banerjee, Suvadeep Mondal, Supriyo Banerjee, Tanmoy Maity and Ayan Lodh participated in a workshop organized on STAAD PRO software in association with IIT-Bhubaneswar and Robo Edutech India Pvt. Ltd. on August, 2015 and was rewarded as 3rd Winner from ROBOHUNK in association with WISSNAIRE IIT Bhubaneswar & Robo Edutech India Pvt. Ltd.
- ❖ Priyank Patel and Amarjit Nag attended zonal Quiz competition at Bhubaneswar in 2015
- ❖ 4th Year CE students participated in a seminar “Green Building for Urban Habitat in India” organized by IEST,Shibpur premises on 10.4.15



5.3.3 How does the college seek and use data and feedback formats, to improve the performance and quality of the institutional provisions?

The departments have created group e-mail ids in which one or two of the faculty have joined as members. This arrangement facilitates interaction with the alumni and helps the department to understand their progress and obtain necessary feedback.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

- The students of the college contribute to college magazine, department newsletters etc. Wall magazines are displayed in the department notice boards, face book etc.
- Students contribute articles to college wall magazine, ‘‘SPECTRUM’’. The inherent potential talent and skills of the students are showcased through this wall magazine. The aesthetic and the writing skills are reflected through the student’s artwork, photography, paintings and articles.
- B.Tech and B.Arch Departments of the Institute separately brings out the ‘Newsletter’ providing information with regards to the achievements and other activities of the department and also provides opportunities for students to communicate the latest developments in science and technology and also their opinions in the form of articles. The college newsletter which disseminates information on various activities of the college and the departments.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

- Yes. The institution has student council. It selects representatives from each class of various departments. Adequate number of girls represent the council which is generally proportional to their strength. Once in a month, the class representatives meet the Principal and HODs and provide their feedback regarding academic progress. It also plans co-curricular and extra- curricular activities, sports and games. The institute makes budgetary allocation for the events organized by the council viz. technical talks, workshops, aptitude tests, expert lectures, quizzes etc.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

- As a statutory requirement there are student members in the Anti-Ragging Committee of the institute. However, students are given opportunities to express their views on various academic and administrative matters when they meet Members of Faculty, HODs and the Principal.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding student support and progression which the college would like to include.

- Though, we do not have any recognized platform for our ex-students, they are always invited in various programs such as fest, tech-fest, seminars, sports meet etc. We have a blog in our website dedicated for our ex-students.

Any other relevant information:

- 1) Wi-Fi connectivity throughout the Hostel.
- 2) Gym facilities are available.
- 3) Transport facility- Students from different surrounding areas can avail of the college bus.
- 4) Canteen facility on the campus.

**CRITERION VI:
GOVERNANCE, LEADERSHIP AND MANAGEMENT**

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision

To become an institute of repute and bring about a change in the sphere of technical education in Bengal by offering a full range of programmes of global standard, and to transform the students into globally competent personalities.

Mission

- To provide state-of-the-art resource required to achieve excellence in teaching-learning and supplementary processes.
- To provide faculty and staff with the required qualification.
- To motivate for their holistic development.
- To provide opportunity to the students to bring out their inherent talent.

Distinctive Characteristics of Mission

ODGI provides academic ambience through inspiration, fosters enthusiasm and motivation so as to realize challenging and rewarding career pathways to students.

- ODGI has unwavering commitment to quality education and experiential learning to ensure that the students can develop the abilities for critical and analytical thinking; they are trained to translate concepts and theoretical knowledge into authentic real time situations.
- Besides these, our students are molded to be socially, ethically aware citizens making effective contributions towards societal transformation and nation building.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The management and the Principal plays the pivotal role in providing adequate financial support, academic and administrative infrastructure creation and sustenance, which works as the basic backbone for establishment of state-of-the-art facilities for very energizing teaching-learning delivery mechanism. Parallely, the top management inspires academia to achieve excellence at national/ global level in the field of higher education. With full back-up from Top Management, the Principal and Faculty i.e., academia try to formulate system process and procedure for imparting quality education true to the spirit of the institute's vision & mission of existence.

6.1.3 What is the involvement of the leadership in ensuring?

- The policy statements and action plans for fulfillment of the stated mission

The leadership is involved in:

- ✓ Formulation of several plans for the academic and infrastructure development, its implementation procedures and guidelines through the faculty members and staff in order to achieve the mission thus protecting the interest of stake holders.
- ✓ Extension of ethical & financial supports for the development and continuous improvement/ updates in all areas.
- ✓ Formulation of a monitoring system for reviewing the quality/ quantity of outcomes in key functional result areas for the fulfillment of our mission.
- Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

The action plans for operations are prepared under the guidance of the Principal, Vice-Principal and Head of the Departments. Committees such as, class coordinator, time table, unit test, anti-ragging, cultural committee and transport are indicated into their defined roles in formulating and achieving the plan. Prior planning for the conduct of the classes, co-curricular and extra-curricular activities are done by the departments before the commencement of each semester. In order to ensure effective delivery of the curriculum, the faculty members prepare course file containing course documents, lesson plans, quiz, assignment questions and previous question papers.

➤ Interaction with stakeholders

Stakeholders are:

Students:

Principal and Departmental HODs of the institute initiate the interaction with the student community at the beginning of the academic programme. The administrator group of the institute conveys the values and ethics to be followed to make the students as one of the part of the institute.

Students' feedback acts as a useful input to bring about innovative teaching-learning methodologies.

Parents:

Parents' informal interaction is conducted at various stages of student performance. Parents are informed about the student's performance, their attendance and thereby find remedies to improve upon.

Employers:

Employers' meeting is conducted during campus recruitment, industrial visits, Guest lectures, Seminar/Workshop on industrial issues.

Alumni:

Alumni meeting provides appropriate interface between alma-maters and industries for curriculum development, student projects and training to adapt to the ever changing trends in engineering. It is conducted once in a year. There is active participation by Alumni students who take lectures or conduct Workshops.

Faculty:

Faculty members are involved in various committees for smooth functioning in different development sectors of the institute. They form Internal Quality Assurance Committee (IQAC) and provide the required inputs and necessary impetus to achieve Program Educational Objectives (PEOs) and Programme Outcomes (POs). Subsequently, all of them define the Course Outcomes (COs) which will be mapped to PEOs and POs directed towards the objective and goal of the Institute.

Management:

Management maintains regular coordination among all the stakeholders and encourages them providing moral, ethical and economical support.

- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
 - ✓ The plan and policy of the Institute are such that they are able to meet the demands of industries and market.
 - ✓ Amenities are provided to get the research projects, consultancy projects from the stakeholders and from other funding agencies in the thrust areas in order to fulfill the societal needs.
 - Reinforcing the culture of excellence
 - ✓ Every department of our Institute conducts Seminars/Workshop twice in a year inculcating the leadership qualities. Research and Development is the one of main thrust of the Institution.
 - ✓ To enhance teacher quality, Management sponsors the faculty members for pursuing their Ph.D. programmes and other research areas.
 - ✓ Departments are advised to upgrade them as Center of Excellence through regular quality checks.
 - Champion organizational change
- The Management collects the information and suggestions about progress of the college in number of ways from its several stakeholders and then encourages participative management of the faculty members and staff in the process of decision making in a pragmatic way for the better functioning of the Institution.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

Quality Policy:

The Institution is committed to providing quality education to the students, enabling them to excel in the fields of Science, Engineering and Technology so that they can contribute meaningfully to the changing and challenging needs of society and industry by:

- Contributing to the academic standards and overall knowledge development of the students.
- Providing state-of-the art infrastructure and helpful learning environment.
- Enhancing the competence of faculty to high levels and to make them adopt innovative methods in teaching-learning process.
- Inculcating moral and ethical values among students and staff.

The procedure adopted by the institution to monitor & evaluate policies & plans of the institution for effective implementation from time to time, is:

- A. Board of Governors of the institute monitors the performance of the Institute in its meeting and advises accordingly. They check every aspect of continuous development such as:
- ✓ Students' semester results.
 - ✓ Students qualifying in several examinations for higher studies.
 - ✓ Students' participation in State and National level competitive exams/events.
 - ✓ Quality of students' projects.
 - ✓ Development of technical live models by the students under the supervision of faculty members.
 - ✓ Faculty member's participation in short term training/ school/ workshop/ conferences etc.
 - ✓ Seminar/workshop arranged by the different departments.
 - ✓ Industrial visits by the students.
 - ✓ Research papers published by the faculty members in National and International journals.
 - ✓ On/ off campus annual placement drives.
 - ✓ Sports and cultural activities.
 - ✓ Infrastructure developments such as class rooms, laboratories, libraries, canteen, health centre, students' common room, power house, safety measures etc.
 - ✓ Review the feedback of stakeholders.
- B. Along with this they informally monitor general perception among academia regarding effectiveness and usefulness of any policy/ plan introduced by leadership.
- C. For assurance of smooth & effective functioning, reviewing and continuous evaluating they depend on its Internal Quality Assurance Cell (IQAC).

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The Top Management ensures that properly qualified with rich academia/ industrial experienced HOD, plays the necessary role of providing academic leadership to the community of faculty. The Head of the Institute, the Principal nominates members in different leadership roles such as Coordinators, In-Charges and Mentors to bring out the inherent quality of leadership. In turn, the Faculty members take on the responsibilities playing the key role to implement the policies and plans through the platform provided to them by the Principal. At regular meetings with Faculty members and HODs, responsibilities are clearly defined and tasks allocated with complete autonomy to execute them.

- The Coordinators and Teacher-in-charges are nominated to be members of committees such as: IQAC, Academic Committee, Exam Cell etc.
- Under the leadership of Principal, Coordinators of different committee and course coordinators are engaged in assigning, delegating coordinating and communicating responsibilities to the staff members as per the established system.

6.1.6 How does the college groom leadership at various levels?

- The Principal has the power with regard to all the academic and administrative matters including the conduct of examinations.

-
- The departments are led by the heads of the departments, who take care of academic and administrative tasks with the help of faculty members.
 - The Principal of the college along with the Heads of the Departments make sure that there is proper utilization of the project funds allocated to them by the management.
 - The Principal plays the role of facilitator and mentor by giving complete autonomy to the committees in executing their tasks.
 - The policy of participative management is adhered to, by giving these committees autonomy in decision making thus bringing out the leadership qualities.
 - By this, faculty members are encouraged to develop management skills such as organizing, coordinating, directing and controlling thus creating accountability also.
 - Planning and execution of several departmental activities, preparation of budget and purchase are taken care of by the nominated coordinators effectively and efficiently.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The college provides operational autonomy to the various departments for decentralization of work. Heads of the departments are given operational autonomy for:

- Preparation of Time-Table and subject allotment.
- Conduct of unit tests, assignments, project works and departmental functions.
- Monitoring Lesson-plans, teaching notes, hand-outs and teaching aids etc.
- Proper conduct of theoretical and practical classes.
- Maintenance of department library and labs.
- Implementation of the action plans and policies and the required logistical support.
- Flexibility in reaching the overall objectives set for the institution.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the Institute promotes a culture of participative management.

- This enables faculty, staff and students to voice their opinions and suggestions including constructive criticism in day to day functioning of the institute through mail or during general and department meetings.
- Policies and plans of the college are framed after detailed discussions and deliberations in the staff meetings. Suggestions of the staff are given due importance and decisions are taken on the basis of consensus.
- Students and non-teaching members are also made part of various committees to encourage and elicit positive inputs to promote innovations and growth of the Institute.
- This culture of participative management empowers members with freedom to express their opinions, assess pros & cons of a decision being taken for improvement and even while meeting the requirements.
- Participative management allows collaboration & cooperation between departments and functionaries thereby improves the quality of accomplishment of task ahead.
- After each brain storming session, action plans are chalked out after being initiated by members proactively thus empowering them.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, the institute has a formally stated quality policy (refer to 6.1.4).

- Based on the suggestions and needs of the stakeholders, the proposal of the quality policy is drawn by IQAC.
- It is then reviewed by the top management and after finalization it is implemented through Principal.
- All the stakeholders are well informed about the quality policy and goals of the institution from time to time through various interfaces.
- Quality enrichment programmes and training is provided to the faculty members to meet the quality standards of the Institute.
- IQAC of the college determines the strategies to be followed for enhancing quality in every aspect of the college functioning and the committees concerned deploy and review the same.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

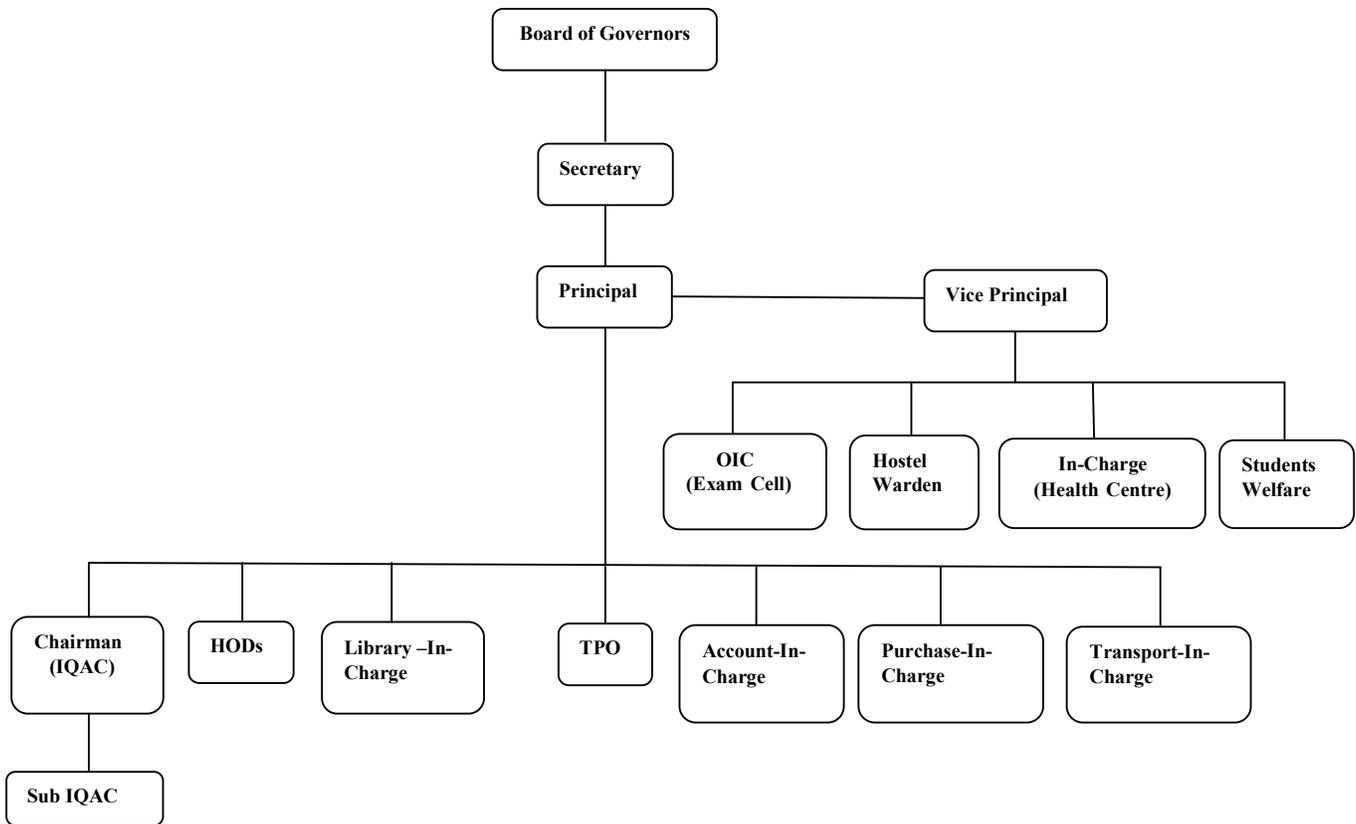
Yes; the institute has a perspective plan for development.

It is developed by the Principal, Vice- Principal, HODs and IQAC members under the broad guidance of Board of Governors of the institute with the following objectives:

- To ensure continuous all round development of the college.
- To cater for milestones to be achieved in 3-5 yrs. perspective.
- To enhance the quality of faculty members through Faculty Development Programmes.
- To increase employability of students through Soft Skill Development Programmes.
- To form committees such as:
 - ✓ Governing Council
 - ✓ Institute Academic Committee
 - ✓ Student Counseling / Grievance Redress Cell
 - ✓ R & D and Consultancy Committee
 - ✓ Internal Training Committee
 - ✓ Entrepreneurship Development Cell
 - ✓ Internal Quality Assurance Cell
 - ✓ Institute- Industry Interaction Cell
 - ✓ Student Counselors/ Faculty Mentors
 - ✓ Alumni Association
 - ✓ Library Committee

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organizational structure of the institute is appended below:-



Where,

IQAC: Internal Quality Assurance Cell
OIC: Officer – in – Charge
TPO: Training and Placement officer
HODs: Head of the Departments

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

The quality improvement strategies of the Institute in the broad terms are focused around following key concepts/ actions:-

Teaching & Learning

- Faculty members are encouraged to take initiatives to become competent in their field and find innovations in their teaching methodologies through the Faculty Development Programmes.
- Regular training is imparted to the faculty members in their subjects through Conferences/ Workshops /Seminars and invited Expert Lectures.
- Some Classes are taken through PPT presentation.
- Thrust on E- Learning by the use of NPTEL material/ on line courses etc.
- Stress on improvement in Communication Skills in English language through conduct of additional English inputs followed by Soft Skills and Aptitude development.
- Hands-on training is imparted through laboratory experiments, industrial visits/training/tours.
- Apart from books and journals, Students and Faculty members are also allowed to access the e-learning resources through DELNET at the library.
- Assessment of students is done through periodical class tests, objective tests, mid examinations and laboratory tests, etc.
- Based on the assessment, the weak students are provided with remedial classes.

Research & Development

- To achieve academic excellence, a conducive and supportive environment is provided to faculty members to pursue research work.
- Adequate journals, reference books, internet, laboratory facilities are made available and specially provided if required for particular project/research.
- Sponsorships are provided for researchers to visit universities in India for attending Conferences/ Workshops/ QIPs.
- Motivation and guidance is provided to publish research papers in National and International reputed Journals.
- We have Institutional membership with National Digital Library.

Community engagement

- The Institution applies the ethos of mass participation of its students in activities related to social cause/ Community development of neighborhood.
- NSS programmes (visit to Old-age Homes and Orphanages).

Human resource management

Recruitment Policy:

The Institute believes in strictly following the norms and the guidelines of AICTE, MAKAUT for faculty hiring. The quality of the candidate in his understanding of subject, communication skills and overall personality has been a thrust area of recruitment.

Industry interaction

The Institute strongly pursues linkage with industry and professional bodies through AMCAT, Co-Cubes, Ardent, TCS and Placement Cell.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

- The top management and Head of the Institution are always in interactive mode with each other.
- Continuous feedback from stakeholders is collected through a streamlined feedback system, suggestion boxes and during meetings.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- In our Institute, the Top Management tries to develop a strong sense of belongingness in the minds of its employees with focus on a stress free, with full academic freedom and a positive work culture.
- Full autonomy along with authority is given to all employees to execute any task in an efficient and effective manner.
- Nominating faculty members and staff as coordinators and in-charges of various departments/committees/cells.
- Overall monitoring of all departments is done by the Head of the Institution to maintain effectiveness and efficiency.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

During the last governing body meeting, some of the prominent issues that was raised were:

Resolution/Recommendations	Status of follow up Action
Ratification of Recruitment of Faculty members and non-teaching staff	<ul style="list-style-type: none"> • After presenting the record of the teaching and non-teaching staff, the Board was informed that the staff were recruited as per the AICTE norms which satisfied the Board.
Infrastructure and development of the Institution	<ul style="list-style-type: none"> • The Committee was informed that the college had equipped labs as per the AICTE norms to meet the needs of the students up to the 8th semester for B.Tech and up to the 10th Semester for B.Arch. • A new building has been constructed to accommodate the Architecture students. • It was also proposed that a new Entrepreneurship Development Cell would be set-up. This being a positive outcome of the 3 day Entrepreneurship Camp held on 20-22nd March 2014 in the college. • It was also proposed that there would be up gradation of teachers through Orientation programmes / Refresher courses. • Another proposal was given by DTE to encourage meritorious students. These students would be awarded and their names would be published in the college website. • It was proposed that students who wanted to pursue higher studies or go abroad for further studies would be encouraged. Simultaneously, students who obtained good scores in GRE, SAT, GATE, CAT would also be encouraged.
Placement Status	<ul style="list-style-type: none"> • The Committee was informed with the list that 50% of the final year students were placed in renowned companies.
Efforts to be made for better placements	<ul style="list-style-type: none"> • Aptitude classes for final year students are taken on a regular basis in the 3rd and 4th year. • Two external agencies have been hired namely AMCAT and Co-Cubes.
Academic collaboration with industry to be promoted to enhance employability of the students.	<ul style="list-style-type: none"> • A tie-up has been done with the companies like Ardent Computer Pvt. Ltd., Kolkata • Betterman, Howrah, W.B. • Syntax, Howrah, W.B. • Jogwani Projects, Howrah, W.B.
Students to be encouraged to go for post graduate studies for M.Tech /MBA	<ul style="list-style-type: none"> • Yes

Alumni connectivity to be improved	<ul style="list-style-type: none"> • Formation of alumni cell in all departments to be made.
ODGI newsletter was published.	<ul style="list-style-type: none"> • First issue of ODGI newsletter released in June, 2015
Student's Innovative projects ideas contest to be organized	<ul style="list-style-type: none"> • Such events with various projects were displayed in the project exhibition organized on 29 – 30 January 2016.
Scholarships to the students	<ul style="list-style-type: none"> • It was decided that meritorious students would be awarded for academic excellence & discipline.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. Academic reputation and previous performance in university examinations and its academic/co-curricular/extension activities in the past; academic/extension achievements of the faculty; quality and merit in the selection of students and teachers, subject to statutory requirements in this regard; adequacy of infrastructure, for example, library, equipment, accommodation for academic activities, etc.; quality of institutional management; financial resources provided by the management/state government for the development of the institution; responsiveness of administrative structure and motivation and involvement of faculty in the promotion of innovative reforms etc.

6.2.9 How does the Institution ensure that grievances /complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

- Provisions for grievance redressal are made through suggestions/complaint boxes, feedback and transparent communication system.
- They are promptly attended to and resolved effectively to the best of satisfaction of aggrieved party.
- Periodically the effect of any recurring incident is immediately looked into and minimized at the root level.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

NIL.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes the Institution has a mechanism for analyzing the student feedback on Institutional performances.

- The feedback from the students regarding the staff members, facilities and other services issues are received once in a semester.
- Such issues are discussed by Principal with concerned functionaries at the meetings with focused agenda.
- Difficulties faced by the students are reviewed and rectified as far as possible.
- On the basis of such feedbacks, the Principal is able to interact with faculty and HODs to improve the Institutional performance.
- Teachers are evaluated by students having 75% or more attendance once in a year and teachers are rewarded as per the evaluation.
- The Principal along with the Management finally helps in taking proper decision & action to improve the overall performance/image/brand of the institution.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

College has set the norms for professional development of faculty members and non-teaching staff through the following actions:-

- Inspiring Faculty members to pursue Higher Studies/Ph.D. and attend Refresher courses/Workshops/FDP/Seminars.
- Encouraging and empowering Faculty members with autonomy to organize Seminars/Workshops and Guest Lectures.
- Attend and present research papers in National/International Conferences.
- Publish research papers in refereed journals.
- Liaise with industries to bring better interaction opportunities for student/ faculty.
- Encourage to acquire higher professional qualification by Non-Teaching Staff.
- Planning for training programmes for non-teaching staff to upgrade their skills and multitasking abilities.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Following strategies are adopted by the institute for empowerment of faculty through the roles they perform as well as training/ re-training:-

- Peer observation is used as a useful technique to imbibe innovations in the teaching-learning methodologies.
- During the semester every faculty member's teaching is monitored, corrected if required by the senior faculty or sent to further training workshops.
- Senior teachers are gradually trained to undertake administrative activities also.
- Systematic grooming, empowerment and responsibility are given to faculty members to play a bigger role over the span of their career.
- Weaknesses of faculty members are identified and they are retrained in the areas requiring reinforcement.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- ✓ An 'Appraisal System' is designed which is solely dependent on students feedback.
- ✓ The total work and responsibilities assigned to the Faculty members are monitored, examined and reviewed to arrive at a holistic and integrated evaluation.
- ✓ An Objective based appraisal system in some broad areas of an individual's contribution i.e., punctuality, regularity, clarity of speech, audibility and subject knowledge is emphasized.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The management always plays a vital role for reviewing and analyzing the performance appraisal of the faculty members.

- Accordingly on the basis of such reports Annual increments and promotions are granted.
- If the appraisal report of a faculty member is not satisfactory in any aspect, the HOD concerned will motivate him/her to improve in that aspect.
- Thus such review is used as an important tool of HRM and maintenance of high level of satisfaction among employees. Decisions taken by the management are communicated to concerned stakeholders through HOD concerned and official orders.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Realizing that satisfied employee is an asset for the institution and can make the college a productive place, the management has put several welfare measures in place for the teaching as well as Non-Teaching Staff besides the salary package. Such provisions are listed below:-

- PF
- Medical Insurance for faculty members and staff
- Tea
- Subsidised canteen and transportation facilities
- Support for up gradation of knowledge through QIP/ conferences/ workshops.
- Maternity leaves for female staff.
- Need based interest free festival/personal loan.
- Medical facilities for all the members within the campus.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

For attracting & retaining eminent faculty, the Institute resorts to following measures:

- Academic freedom.
- Promotion/Increments based on the performance.
- Freedom to pursue higher education.
- Financial assistance for research paper presentation including 'On Duty Leave'.
- Financial Incentives for research publications.
- The institution encourages students and faculty to take up summer programmes in research institutes.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Department heads prepare the budget proposal based on their requirements and present it to the management every semester before the commencement of the semester.
- The top management reviews the departmental budget proposals and approves them accordingly.
- Quotations are taken from at least three different vendors and examined to select the best vendor on the basis of Price, Quality and after Sales Service.
- The purchase is then made strictly following the given budget proposal.
- Following this procedure, unnecessary purchases are avoided and the available funds are effectively utilized.
- Departments are encouraged to obtain grants through AICTE and DST for conducting Workshops/Seminars/Projects.
- On the similar line, expenditure on other major heads like salary, operational costs, construction, reserves are managed through budgetary control.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

- **Internal Audit also goes on throughout the year by certified auditors.**
- No major observation has been observed.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The major sources of Institutional receipts are

- Fees from the students
- Term Loan from Banks

The audit report of last four years is enclosed





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No. 282/283/284
Commercial Complex
17, Ashoka Road
New Delhi - 110 002
Phone: 2610 2828
Fax: 2610 2848
E-mail: eslohiac@rediffmail.com

Ref No: _____

AIR LETTER

We have examined the aforesaid Balance Sheet of OMDAYAL GROUP OF INSTITUTIONS as at 31st March, 2014 and the Statement of Profit/Loss Accounts for the year ended on that date as per the Report No. _____

1. The aforesaid Balance Sheet and accounts and Statement of Profit/Loss Accounts are prepared in accordance with the provisions contained in the Companies Act, 2013 and the Companies (Accounts) Regulations, 2014 and the Companies (Auditors Report) Rules, 2014.
2. We have obtained all the information and explanations which in our view are necessary for the purpose of our audit.
3. In our opinion, proper books of accounts have been kept by the aforesaid institution in accordance with the provisions of the Companies Act, 2013 and the Companies (Accounts) Regulations, 2014.
4. In our opinion and to the best of our knowledge and belief, no fraud has been committed in the accounts and the accounts are correct in all material aspects.

1. In the name of the Chartered Accountant, in the name of office of the above named Institution at 282/283/284

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAYAL GROUP OF INSTITUTIONS
BALANCE SHEET AS AT 31ST MARCH 2014

Particulars	Amount (₹)	Particulars	Amount (₹)
ASSETS		LIABILITIES	
Fixed Assets	1,00,00,000	Share Capital	1,00,00,000
Current Assets	1,00,00,000	Reserves & Surplus	1,00,00,000
Total	2,00,00,000	Total	2,00,00,000

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULE FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

Particulars	Amount (₹)
SCHEDULE - 1	
Share Capital	1,00,00,000
Reserves & Surplus	1,00,00,000
Total	2,00,00,000

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

Particulars	Amount (₹)
SCHEDULE - 1	
Share Capital	1,00,00,000
Reserves & Surplus	1,00,00,000
Total	2,00,00,000

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

Particulars	Amount (₹)
SCHEDULE - 1	
Share Capital	1,00,00,000
Reserves & Surplus	1,00,00,000
Total	2,00,00,000

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

Particulars	Amount (₹)
SCHEDULE - 1	
Share Capital	1,00,00,000
Reserves & Surplus	1,00,00,000
Total	2,00,00,000

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

For OMDAYAL GROUP OF INSTITUTIONS
New Registration No. 40-00-000
Chartered Institution

OMDAVAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS
FOR THE YEAR ENDED 31ST MARCH 2015

SCHEDULE - 7	AMOUNT (₹)
Shareholders Fund	
Reserve Fund	
Provisioning Fund	50,000.00
Life Time / No-Admission Fees	48,514.00
College Students Fund	715,000.00
	793,514.00

SCHEDULE - 8	AMOUNT (₹)
Shareholders Account	
Current Bank Balances	20,270.00
Misc. Receipts	152,070.00
	172,340.00

Prepared by Schedule 1 to Schedule 8
 For S.S. LOHIA & CO.
 Firm Reg. No. 114154
 Chartered Accountants
 S.S. LOHIA & CO.
 Partner
 Membership No. 85175
 Floor - 2nd Floor
 Plot - 14/5/2015

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

Audit Report 2014-15

S. S. LOHIA & CO.
 Chartered Accountants

Phone: 4352 4352 4352
 Fax: 4352 4352 4352
 e-mail: s.lohia@rediffmail.com
 s.lohia@rediffmail.com
 27, Balakrishna Street,
 Newmarket Building,
 1/6, First Floor, No. 111
 Andhra - 500 004

Ref No. _____ Date _____

AUDIT REPORT

We have examined the attached Balance Sheet of OMDAVAL GROUP OF INSTITUTIONS (OR IN AN OMDAVAL SELF STUDY) A TEACHERS' WELFARE FUND, as at 31st March, 2014 and the Income & Expenditure Account for the year ended on that date and report as follows:-

- The annual Balance Sheet and Income and Expenditure Accounts are in agreement with the books of account maintained by the said Institution.
- We have examined all the information and explanation related to the fact of the knowledge and belief necessary for the preparation of the said.
- In our opinion, proper books of accounts have been kept for the correct record maintenance for all significant transactions of the year.
- Assets reported and in the fact of the balance sheet according to maintenance given in the said accounts, read together with the schedule attached give a true and fair view.
- In the case of the Balance Sheet, as the case of office of the above named Institution as at 31st March, 2014.
- In the case of the Income and Expenditure Accounts, the correct description of the services for the Accounting year ending on 31st March, 2014.

Sd/-

For S.S. LOHIA & CO.
 Chartered Accountants,
 Membership No. 85175
 Partner
 Plot - 14/5/2015

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

OMDAVAL GROUP OF INSTITUTIONS
BALANCE SHEET AS AT 31ST MARCH 2014

Particulars	Balance	Amount (₹)	Assets	Liabilities	Amount (₹)
Shareholders' Fund					
Reserve Fund					
Provisioning Fund		50,000.00			
Life Time / No-Admission Fees		48,514.00			
College Students Fund		715,000.00			
		793,514.00			
Shareholders Account					
Current Bank Balances		20,270.00			
Misc. Receipts		152,070.00			
		172,340.00			

Prepared by Schedule 1 to Schedule 8
 For S.S. LOHIA & CO.
 Firm Reg. No. 114154
 Chartered Accountants
 S.S. LOHIA & CO.
 Partner
 Membership No. 85175
 Floor - 2nd Floor
 Plot - 14/5/2015

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

OMDAVAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

SCHEDULE - 1	AMOUNT (₹)
Shareholders Fund	
Reserve Fund	
Provisioning Fund	50,000.00
Life Time / No-Admission Fees	48,514.00
College Students Fund	715,000.00
	793,514.00

SCHEDULE - 2	AMOUNT (₹)
Shareholders Account	
Current Bank Balances	20,270.00
Misc. Receipts	152,070.00
	172,340.00

Prepared by Schedule 1 to Schedule 8
 For S.S. LOHIA & CO.
 Firm Reg. No. 114154
 Chartered Accountants
 S.S. LOHIA & CO.
 Partner
 Membership No. 85175
 Floor - 2nd Floor
 Plot - 14/5/2015

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

OMDAVAL GROUP OF INSTITUTIONS
SCHEDULES FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2014

SCHEDULE - 1	AMOUNT (₹)
Shareholders Fund	
Reserve Fund	
Provisioning Fund	50,000.00
Life Time / No-Admission Fees	48,514.00
College Students Fund	715,000.00
	793,514.00

SCHEDULE - 2	AMOUNT (₹)
Shareholders Account	
Current Bank Balances	20,270.00
Misc. Receipts	152,070.00
	172,340.00

Prepared by Schedule 1 to Schedule 8
 For S.S. LOHIA & CO.
 Firm Reg. No. 114154
 Chartered Accountants
 S.S. LOHIA & CO.
 Partner
 Membership No. 85175
 Floor - 2nd Floor
 Plot - 14/5/2015

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

For Omdaval Group of Institutions
 [Signature]
 Authorized Signatory

OMDAYAL GROUP OF INSTITUTIONS
INCOME STATEMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2013

Particulars	2012-13	2011-12	2010-11
Income from Fees	1,24,00,000	1,10,00,000	1,00,00,000
Income from Donations	1,00,00,000	1,00,00,000	1,00,00,000
Income from Other Sources	1,00,00,000	1,00,00,000	1,00,00,000
Total Income	2,24,00,000	2,10,00,000	2,00,00,000
Less: Expenses	(1,00,00,000)	(1,00,00,000)	(1,00,00,000)
Net Profit	1,24,00,000	1,10,00,000	1,00,00,000

For Omdayal Group of Institutions
 For Omdayal Group of Institutions
 Authorized Signatory

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULE FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2013

SCHEDULE - 1	Amount (₹)
Ready Creditors	
For Salaries	50,00,000
For Students New Building Construction	1,00,00,000
For Outstanding Loans	1,00,00,000
For Temporary Loans	1,00,00,000
For Other	1,00,00,000
Temporary Receipts from C.T. Bank Ltd	1,00,00,000
	7,00,00,000
SCHEDULE - 2	
Advance From Students	
Of Other Fees from Existing Students	1,00,00,000
	1,00,00,000

For Omdayal Group of Institutions
 For Omdayal Group of Institutions
 Authorized Signatory

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULE FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2013

SCHEDULE - 3
Fixed Assets

Sl. No.	Particulars	Original Cost (₹)	Net Value (₹)	Depreciation (₹)	Accumulated Depreciation (₹)	Balance at 31st March 2013 (₹)
1	Land	1,00,00,000	1,00,00,000	-	-	1,00,00,000
2	Buildings	1,00,00,000	1,00,00,000	-	-	1,00,00,000
3	Plant and Machinery	1,00,00,000	1,00,00,000	-	-	1,00,00,000
4	Motor Vehicle	1,00,00,000	1,00,00,000	-	-	1,00,00,000
5	Computer System	1,00,00,000	1,00,00,000	-	-	1,00,00,000
6	Other Assets	1,00,00,000	1,00,00,000	-	-	1,00,00,000
7	Total	7,00,00,000	7,00,00,000	-	-	7,00,00,000

For Omdayal Group of Institutions
 For Omdayal Group of Institutions
 Authorized Signatory

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULE FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2013

SCHEDULE - 4	Amount (₹)
Reserve Accounts	
Reserve for Contingencies	1,00,00,000
Reserve for Depreciation	1,00,00,000
Reserve for Contingencies	1,00,00,000
Reserve for Other	1,00,00,000
Total Reserve	4,00,00,000
SCHEDULE - 5	
Advance From Students	
Advance from	1,00,00,000
Total Advance	1,00,00,000
SCHEDULE - 6	
Pay to Other Parties	
Pay to	1,00,00,000
Total Pay	1,00,00,000

For Omdayal Group of Institutions
 For Omdayal Group of Institutions
 Authorized Signatory

OMDAYAL GROUP OF INSTITUTIONS
SCHEDULE FORMING PART OF ANNUAL ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2013

SCHEDULE - 7	Amount (₹)
Minor Income	
Minor Income	1,00,00,000
College Activity Fund	1,00,00,000
Total	2,00,00,000
SCHEDULE - 8	
Minor Income	
Minor Income	1,00,00,000
College Activity Fund	1,00,00,000
Total	2,00,00,000

For Omdayal Group of Institutions
 For Omdayal Group of Institutions
 Authorized Signatory

Audit Report 2012-13

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).
 No Such

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If ‘yes’, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

OmDayal Group of Institutions has established IQAC with effect from the academic year 2016-17

The functions of IQAC are:

- To formulate and implement the plans and policies according to norms of various accrediting agencies like NBA, NAAC.
- To form Departmental IQAC Sub-Committee at the beginning of each semester comprising of all the departmental faculty members.
- To collect and disseminate reports from the IQAC Sub-Committees.
- To review, evaluate and monitor the course of actions taken by the IQAC Sub-Committees periodically.
- To maintain liaison and establish network with individual entrepreneur and organizations connected with quality assurance in the field of education.
- To collect feedback from the stakeholders regarding various facilities and services being provided in the college and make necessary improvements on the basis of it.
- To imbibe and inculcate quality assurance policies amongst each faculty members through several workshops, seminars, conferences, guest lectures and training programs.
- To furnish progress reports to the Management for continuous improvement of the college in terms of quality standards.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Most of the decisions of IQAC, ever since its formation have been approved by the management and implemented.

➤ Decisions taken by IQAC:

- ✓ Enhancing teaching-learning process through lesson plans, study material with the focus of course outcome.
- ✓ Recommends to organize / attend FDP, Seminars, Workshops, National/International Conferences etc. and open access to key e-learning resources for students and faculty members.
- ✓ Concrete efforts should be taken for providing better career opportunities to all the students through different agencies like Co-Cubes, AMCAT, NSDC, NPTEL.
- ✓ Recommends to form R & D and Consultancy committee for motivating the students and faculty members towards research publications.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

No; IQAC does not have any External member. However, the Institute has future plans to involve external members from the Industry and Academia.

d. How do students and alumni contribute to be effective functioning of the IQAC?

We have no student and alumni members at present. But, we have a plan to introduce them in near future.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

- IQAC engage faculty members from different departments and staff members of the institute for its administration and development work.
- The communication is done through circulars, emails and meetings.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalization.

Yes. The academic and administrative activities are monitored regularly through BOG, Institute Advisory Committee and IQAC.

6.5.3 Does the institution provide training to its staff or effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

Yes. Our faculty have been deputed for FDI programme in NITTR, Kolkata.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Yes. Annually, the external audit is carried out by affiliating university, MAKAUT, COA and AICTE. If any non-compliance is found, it is rectified and actions are taken for further improvements.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

- The internal quality assurance mechanism is designed and built on the guidelines and broad frame work of the external quality assurance agencies like NBA, NAAC.
- It also takes into consideration the quality parameters of the affiliating university.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- Subject allocation is done as per the faculty specializations, willingness and experience.
- A systematic procedure is followed to record the topics completed as per the lesson plans made at the beginning of each session.
- If it is found that the topics are not completed within the predefined schedule, then provisions are made to take special classes on Mondays.
- Attendance Register is maintained by each faculty member which contains the students’ attendance and performance in tests. Two internal tests are conducted for each coursework in each semester.
- Progress of each class is monitored in its departmental meetings conducted by the Heads of the Departments monthly and which is reviewed by IQAC.
- In the departmental meeting HOD guides the faculty members for improvised teaching –learning methodologies.
- In the tutorial classes numerous problems are worked out and the examples discussed.
- Remedial/extra coaching is given to students whose performance has gone below the average standards.
- The Institute monitors the quality of teaching learning process by several means such as:
 - ✓ Scrutiny of Course files in Sub-IQAC meetings.
 - ✓ Oral and written feedback from the students.
 - ✓ Results analysis is done for internal and semester examinations.
- The syllabus is strictly adhered to the affiliating university and followed according to the academic calendar made at the beginning of the session.
- Additional topics are included to bridge the curriculum.
- Number of instructional days, classes per week as directed by affiliating university is followed.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies, mechanisms and outcomes to various internal and external stakeholders through:

- Meetings, e-mails, SMS, circulars and notices.
- Prospectus, Institute brochures, pamphlets and leaflets.
- Web site
- Institute in-house newsletters
- News Papers, TV, Radio
- Hoardings in commercial centers

Awareness campaign through DST Programmes and NSS special camps etc.

**CRITERIA VII:
INNOVATIONS AND BEST PRACTICES**

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes; the institute takes great interest in maintaining the campus highly eco-friendly and energy conservative. Environment activists oriented student and staff is actively participated in taking survey process once in a year for auditing campus facilities and environment & energy consciousness like planting green trees and maintaining green environment. The Institution has initiated for rain water harvesting.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Energy conservation

- Placards conveying the importance of the energy conservation are made visible all over the college campus to create awareness among the staff and students on energy conservation.
- The institute propagates the importance of energy conservation by intimating staff and students to turn off the fans and lights in hostel and college whenever not needed. Proper supervision is carried out by concerned authorities (single switch is used to switch off classroom power supply for fans and light points).
- Awareness program is conducted periodically for elaborating the importance of water resource and advised to close the tap water whenever not needed.
- The use of transparent glass windows provides natural light in all classrooms.

Use of renewable energy

- The lawns and saplings in the garden will be watered by the recycled waste water which will be treated properly in the plant.
- Solar heaters are planned to be installed for minimizing the usage of electrical power. Also to provides hot water to the students in the hostels.

Efforts for Carbon neutrality

- The college has made arrangements for the parking at a separate ground beside the campus boundary. This helps in keeping the campus clean as much as possible. The college has taken up preventive measures to check the emission of carbon-dioxide. Only emission tested vehicles are allowed inside the campus. The dead leaves and the waste papers are not allowed to be put on fire. The leaves are buried in the soil itself.

Plantation

- Tree plantations are organized regularly to create clean and green campus. NSS\YR coordinator organize tree plantation internally and externally from time to time.

Hazardous Waste Management

- Waste separation at sources.
- Separated solid wastes are dumped outside campus.

Water harvesting

- To sustain the ground water availability the Institution has proposed rain water harvesting system.
- The institute has taken steps to rain water harvesting.

E-Waste Management

- E-waste like computers, printers and laboratory waste are properly disposed.
- Environment Friendly Campus by making it a Plastic free and Smoke free.

7.1.3. What is the initiative taken by the Institutions to foster elimination of carbon footprint?

Department of architecture has Energy-Efficient Architecture (ARCH- 801) as a subject in their eighth semester syllabus. The students deliberately take part in the energy audit program for the campus every year. The approach for Environmental Impact of the campus is, being a part of the curricula, taken very seriously. To achieve the target students conduct water test (water used for the campus), calculate the total generation of solid waste and its disposal after the basic treatment, waste water treatment and reuse for flushes.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Over a period of years, the institute has introduced the following innovative practices.

- Guest lectures are arranged by Industry/Academia experts.
- Conduct of value added courses/ beyond curriculum courses to make students industry ready.
- Encouragement & support to students for appearing and doing well in competitive exams like GATE, GRE, GMAT, CAT etc. for higher studies.
- Financial rewards for university rank holders and class toppers in the institute
- Introduction of annual project contest/ competition at institute level.
- Availability of library and lab facilities during extended hours
- Tobacco free campus
- Encouragement to faculty for doing research.
- Special administrative thrust for NSS and extension activities

Sl. No.	Innovative Practice	Outcomes
1	Introduced students to social interaction with under-privileged children	To have better understanding of people and initiate resource sharing thoughts
2	Introduced students to practices on saving electricity	More awareness of natural resources and its conservation
3	Introduced students to speaking at seminars	To make them understand the subject better and grow more confidence in oneself
4	Visits to exhibitions, seminars and construction sites	Awareness about the profession and its people, better grasp of subjects
5	Introduced the annual newsletter of the college/department	Generated interest amongst students to excel in every activity and thereby become a part of the show

The general quality of the students has improved in the following areas:

- The students have developed a competitive spirit in a more sustainable manner.
- They have actually won at several design competitions over the years.
- They have grown in taking responsibility to organize events of national importance at the college successfully.

Some more innovative practices:

(i) Students role in assuring quality of education imparted by the institution

Student's representation is ensured in the bodies having student support activity like class committee, Hostel committee, Cultural and Sports committee. Students interact with industries and undergo in-plant training and do their project works. Department invites eminent scholars, academicians and industrialists for guest lectures. Feedbacks are periodically collected from the student on teacher's performance to improve the teaching learning process.

(ii) The college has taken up the following initiatives to promote best practices in innovation and to ensure that they are internalized:

- Setting up of a feedback evaluation unit to carry out proper and timely analysis of feedback obtained from different stakeholders so that the information can be used in institutional decision-making.
- Planning of academic calendar maps to achieve greater integration of instruction and make lesson planning more effective.
- Providing LCD projectors in the classrooms.
- Introduction of teacher-led students projects to create an interest in research among students.
- Encouraging faculty research by supporting presentation of papers at seminar and conferences.
- Providing financial support to students from economically disadvantaged sections to facilitate their completion of studies.

- Providing for student representation in various committees to give this important stakeholder component a share in decision making.
- To ensure that the best practices are internalized, the college makes adequate budgetary provisions, for their support and has committees to oversee implementation.

(iii) The institution has added value to quality enhancement of students through adoption of the following measures:

- Use of multimedia learning resources and learning strategies like student seminar, discussion, collaborative learning and interdisciplinary teaching to create a rich classroom environment.
- Setting up student-activity groups to enable students to engage in activities which contribute to a holistic education.
- Supporting students study and recreational tours helping them to gain exposure beyond the campus.
- Providing opportunities for students to interact with community leaders, professional and other role models to develop a positive attitude.
- Involving students in the college extension activities to promote in them an attitude of service.

(iv) The following strategies have been adopted by the college to promote overall development of the students from rural background:

- Personal counseling by the faculty
- Tutorial / remedial classes
- Computer literacy programme
- Improvement of communication skills through English language lab.
- Personality development programmes
- Soft skill development programmes

(v) The key factors that attract students and stakeholders are:

- Experience and qualified faculty members
- Well library facility with internet and wide range of books
- Excellent infrastructure
- Wide choice of courses
- Excellent academic ambience
- Emphasis on computer learning and soft skill development
- Well maintained discipline.
- Teacher-student relationship
- Placement and career counseling

(vi) The following community-oriented programmes are periodically organized by different clubs and societies of the college:

The following community-oriented programmes are periodically organized by the student associations of the various departments.





Women awareness Programme



Health and hygiene Awareness programme

- NPTEL videos are made available to the students.
- The parents are informed about the regularity of their wards in the classroom so that parents can take more care to make their son/daughters to attend maximum number of classes.
- Majority of the students projects are guided by the faculty and executed in the institute.
- The institute has a comprehensive placement and training philosophy which is executed through qualified staff and experts from outside.

Innovative Project for the academic year 2015-16

Sl. No.	Description of Innovative Project
1	Voice Locking media Player System using Android Application development
2	Emergency help service based on minimum on-road distance calculated from longitude and latitude between hospital and place of accident
3	College Management System with Android Application and Google Cloud Engine Application Program Interface
4	Expose students in multi-disciplinary problems by Organizing Technical exhibition
5	Electricity generation from speed breaker
6	Automatic Water level Indicator

Innovative Practice for the academic year 2014-15

Sl. No.	Description of Innovative Project
1	Students are familiar with online competitive examinations for organizing online examination test.
2	Students will be exposed the recent development and practices by organizing innovative projects.

7.3 Best Practices

Best Practice 1

1. Title of the practice **Continuous academic monitoring of the students**

2. Goal: To identify the academically weak students and assess the reasons for their poor performance. These weaknesses should be studied and proper remedial action is to be taken to address these problems. It is not necessary that the reason for the problem is with the students or their academic back ground. In some cases it may even be due to the social background, economic background etc., in such cases personal counseling has to be done to ensure that they overcome the difficulty.

3. The Context: This part of West Bengal (Howrah and Pubra Midnapur) depending on agriculture as its main source of income, many of the students hail from a rural background. Most of them have completed up to their 10th education in Bengali medium and find it difficult to adapt to the English medium of instruction. Added to that imbalance in academic background of peers, hesitation in asking for guidance or help in studies or personal counseling etc., These students when not given the helping hand that they need, tend to drop back in their academic grades and eventually there is the chance of even dropping out of the course. So the management of OmDayal Group of Institutions has decided to address these issues by formulating a personal mentor system so that such students get the required guidance from the staff and also the system of peer to peer helping in the hostels provide them the necessary moral and emotional support that they need most.

4. The Practice: The continuous academic monitoring system helps the faculty in recording the academic progress of each and every student. Also the mentoring system adopted, where in every faculty is in charge of 20 students and acts as a mentor for those students, so that they can approach their respective faculty in case of any academic /personal help. This personal mentoring system helps the faculty in identifying the academically weak students. Those students are called for personal counseling and the mentor tries to understand the nature of the problem faced by these students. On analysis it has been found that the reasons for the poor performance of these students are of two types. One may be due to their academic background and the other may be due to their economic and social background. While analyzing the academic reasons it has been found that Students who have completed their schooling in Bengali medium find it difficult in understanding the technical concepts which are taught in English. This problem when left unaddressed leads to lack of interest in the subject, which reflects on their end semester results and in worst cases may even lead to dropouts. Such students who have not been able to have their schooling in English medium are given special coaching for communication skills. This concept helps in not only creating a better rapport among the students but also helps them in understanding the concepts well because they may find it easy in asking the help of their friends in studies. Incidentally the students predominantly are from weaker and disadvantaged section of the society. The financial constraints faced by the students also have its effect on their academic performance. When the mentors come to know of such difficulties they suggest the students about the external financial options that are available like, bank loans, Government scholarships etc., In a few cases the Management also sponsors the education of such students through scholarships and free ships. The performance of the students in the class is recorded semester wise in the department and as stated, the faculty members care for the academically weak students by way of personal counseling. When identified at the beginning of the course and in some cases even before that (with the help of analysis of their performance in higher secondary examinations and class room interaction during the bridge courses), it becomes easier to bring them to the main stream.

5. Evidence of Success: The practice of monitoring the incremental academic growth of the students has been adopted by OmDayal Group of Institutions for the last four years. Every year at the beginning of the academic year the students are counseled by the faculty and the Head of the departments also addresses them. It has been noted that the academic performance of students has always been on the rise and the result analysis done every semester is a proof of it. The result analysis not only give the data about the performance of the students during the semester exams, but also on analysis the faculty will be able to judge whether a particular student is good in analytical or theory subjects, what kind of remedial measure is needed to solve his problem etc. Every semester the faculty is encouraged to achieve 100% results in their respective subjects. However, as it is not

practically possible to achieve the same, the management ensures that the motivation factor is not lacking in the faculty, by means of cash rewards and certificates of appreciation to staff members who secure maximum results in their subjects. The management has clearly understood that the process of achieving good academic results is not only in the hands of the students and faculty, but also the backing of the management plays a major role in achieving the same.

Best Practice 2

1. Title of the practice: Outcome Based Education (OBE)

2. Goal

Along with the traditional method of teaching, Outcome Based Education is practiced in the institute. OBE activities such as quiz, course seminar, course project, subject proficiency test help a faculty member evaluate the student on continuous basis. This system focuses not only what the student has learnt and understood but also provides a platform to apply the knowledge gained.

3. Context

Our institution is in affiliated system. As per the University guidelines Unit test, practical examination and university examination are the only ways of assessing the academic performance of the student. OBE includes quiz, assignments, seminar, presentations, etc are not the part of the university guidelines. Initially the students were not taking active part in these activities as they do not have any credits/marks. Continuous counseling had to be done to explain the importance of these activities in their academic and professional life. Students are now participating in the OBE activities.

4. Practice

The institute prepares its calendar of events. All the activities that are planned for the semester are mentioned. The schedule for the OBE activities is also included in the calendar of events.

Assignments: Each student has to submit two assignments. The assignment questions include both descriptive and numerical.

Quiz: Objective type quiz is conducted in the classroom. The entire class is divided into three/ four groups so that there is competitive environment during the conduction of quiz.

Course seminar: The students are divided into batches. Each batch consists of four students. Each faculty member is assigned with three batches. The batch list and the faculty guide are displayed on the notice board. The students have to contact the concerned faculty member to discuss the topic for the seminar. Students are encouraged to suggest the topic of their interest. They have to collect the information from the journal papers, magazines, internet etc and have to prepare the report. The students have to present the same through power point presentation.

Subject Proficiency test (SPT):

This test is conducted for each subject. The questions are of objective type.

5. Evidence of success

It has been evident that students have become more confident and they have good learning experience. This has helped them in performing well in the University exams and helped in getting placements.

6. Problems Encountered and Resources Required

OBE is not the part of the university guidelines. Initially the students were not taking active part in these activities as they do not have any credits/marks. Continuous counseling had to be done to explain the importance of these activities in their academic and professional life.

Best Practice -3

1. Title of the Practice – Provide hands-on experiences for students to equip on projects.

2. Goal

Students will be engaged in hands-on activities of modern technologies. These hands-on activities may be in form of small projects guided by faculties, may also be in form of workshops organized by outside training organization. Students will get brief ideas of those technologies with these type of activities. Later they will be interested to do grand projects with the help of faculties. Students also can form group of their own to learn to work in group. Students also understand application of these technologies.

3. The Context

All students have to go for training in one semester break. Some students are involved in training other semester breaks also. Other students are also interested to learn new technologies. But they are not able to do training due to distance of training centre from their home. College is purchasing new equipment, chips etc. and faculties are gaining new knowledge to involve students on hands-on activities. College is also organizing workshops on recent technologies with the help of outside organization in college premises. Students are getting hands-on experiences through these workshops. They are very much interested for doing these training & workshops.

4. The Practice

College has purchased different types of microcontroller, different chips, motors, sensors for smart technology projects. Students with the help of faculties are getting hands-on experiences for these types of projects.

A workshop on “Android Application Development” is organized in the college from 9th June to 15th June 2015. Students became familiar with Android platform and they are able to write programs on their own with the help of this workshop. After that many students expressed interests to perform final year projects on Android Application Development. They were also assigned the project on this current technology.

Another workshop “Robotryst” is organized on 22nd and 23rd December, 2015. Students became familiar with AVR microcontroller. They able to built line following robots in this workshop.

5. Evidence of Success

Different models like “Motion Sensed Mechanical Arm”, “LED matrix”, “Smart Fan”, “Automatic Visitor Counter” are being developed using microcontrollers, chips, sensors etc. Students have completed their final year projects using Android very successfully and also very confident crack interviews on this technology, which is outside the syllabus of affiliated university.

6. Problems Encountered and Resources Required

- i) Some classes will be lost for these types of hands-on activities. Faculties and students have to take extra initiative to complete the syllabus.
- ii) Some faculties/lab assistants are also involved in this process. Existing computer lab is used for this type of workshops. Training organizations are being contacted for experts on new technologies.
- iii) Microcontrollers, chips, sensors, different types of motors are being purchased for hands-on experiences of the students.

7. Notes (Optional)

Students are getting certificates for the workshops. Some workshops are also multi-disciplinary.

Best Practice -4

1. Title of the Practice

Provide students exposure and best practices followed in modern industries.

2. Goal

To provide the students a high quality engineering education and inculcate new ideas and knowledge in various fields viz., Machine Design, Applied Mechanics, Thermal Engineering, Production Engineering and allied subjects. Also, the department seeks to maintain recognition through scholarly work and service to the nation.

3. The Context

To provide state-of-the-art resources required to achieve excellence in teaching-learning and supplementary processes, to provide faculty and staff with the required qualification and competence, to motivate for their holistic development and to provide opportunity to the students to bring out their inherent talent.

4. The Practice

- i) Workshop on “3D Designing, Scanning & printing” organized in the college on 4th May, 2016. Students became familiar with Rapid Prototyping and additive manufacturing.
- ii) Workshop on “Non Destructive Testing” organized in the college on 23rd September, 2015.
- iii) Seminar on “Overview of thermal Power Plant” Organized in the college on 7th February

-
- 2015.
5. **Evidence of Success**
Different models like “Sage way, Hydraulic robotic arm, Ram Pump, Automatic Conveyor System, Automatic Water level Indicator, Hydraulic Drilling Machine, Vacuum Cleaner, Centrifugal Blower and Cooling Tower.
 6. **Problems Encountered and Resources Required**
 - i) Sometimes non availability of required materials in the market.
 - ii) Delay in approval of budget.
 7. Notes (Optional)
We provide certificates to the students after completion of Seminars / Workshops and events.

Best Practice -5

1. **Title of the Practices**
Improvement of students’ knowledge through the ability of facing problems on different hands-on projects in each year
2. **Goal**
The Best Practice is aimed to ensure our achievements towards overall development of the students. This is also catalytic towards continuous growth by actively engaging students in the learning process and making the students globally competitive.
3. **The Context**
At present engineering technology has become extremely competitive and outcome based. Students are looking for institutes that are not only on conventional academics but also on practical technical knowledge. Technical skill-setup of these students enable them to prepare for contributing significantly in the challenging environment of technology up gradation. In this context, the Best Practice of our department is a continuous method of hand-on projects for each student that is being carried out along with our academic activities.
4. **Practice**
A workshop on “Robo Tryst” for two days and a workshop on “LabVIEW Based System Design” for three days are organized in the college for enhance the students’ project work
5. **Evidence of Success**
Students’ technical knowledge is enriched with these types of project works. Also students are actively engaged in class as a result increased their academic performance and increased their ability to succeed as a team which installed a culture of life-long learning.
6. **Problems Encountered and Resources Required**
For this hands-on projects faculties have to take extra initiative for complete the schedule syllabus. Department faces the challenge of providing the students with the best resources person to carry out this Best Practice.
7. **Notes (Optional)**
Student can compete in different technical exhibition.

Contact Details:

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Section – E
Evaluation Report of the Departments

Department of Civil Engineering

1. **Name of the department** : Civil Engineering
2. **Year of Establishment** : 2010
3. **Names of Programs/** : B.Tech in **Civil Engineering**
Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph. D., etc.)
4. **Names of Inter disciplinary courses and the departments/units involved**

Sl. No.	Course name	Department Involved
1	Materials Handling	ME
2	Basic Electrical and electronics	ECE
3	Introduction to Computing	CSE
4	Fluid Mechanics	ME
5	Fluid Mechanics Lab	ME
6	Material Testing Lab	ME

Annexure 1: Class time table (CE) Sample

5. **Annual/semester/** : UG – Semester System
Choice based credit system

Annexure 2: Syllabus

6. **Participation of the department in the courses offered by other departments:**

Sl. No.	Course Name	Faculty Name	Department
1	Strength of Materials	Prof. Subrata Halder	ARCH
2	Structure – II	Prof. Subrata Halder	ARCH
3	Structure – IV	Prof. Pampa Sen	ARCH
4	Survey Field work	Prof. Srijan Mukherjee	ARCH
5	Engineering Mechanics	Prof. Srijan Mukherjee / Prof. Pampa Sen	ARCH
6	Structure – I	Prof. Subrata Halder	ARCH
7	Structure – III	Prof. Pampa Sen	ARCH

8	Surveying	Prof. Srijan Mukherjee	ARCH
9	Materials Testing work shop	Prof. Subrata Halder	ARCH

7. **Courses in collaboration with** Other universities, Industries, Foreign institutions, etc.: NIL

8. **Details of courses/programs** discontinued (if any) with reasons: NIL

9. **Number of Teaching posts:**

Position	Sanctioned	Filled
Professors	0	0
Associate Professors	01	01
Asst. Professors	09	09

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4years
1	Prof. Satyendra Nath Chattopadhyay	B.E., M. Tech.	Associate Professor	Structural Engineering	Industry-34 yrs. Teaching-7 yrs.	Nil
2	Prof. Goutam Bondyopadhyay	B.E., PGDM Construction & Material Management	Assistant Professor & TIC	Water Resource Engg., Construction Management, Concrete Technologist Building Technology	Industry-37 yrs. Teaching-4 yrs.	Nil
3	Prof. Mrinal Mukherjee	M.Tech.	Assistant Professor	Structural Engg., Environmental Engg.	Industry -36 yrs. Teaching - 5yrs.	Nil
4	Prof. Supravat Chattopadhyay	M.Tech.	Assistant Professor	Geo-Technical & Bridge Engg.	Industry -40 yrs. Teaching -5 yrs.	Nil
5	Prof. Srijan Mukherjee	M.Tech.	Assistant Professor	Transportation Engg., Surveying	Teaching – 2 yrs Industry – 1yr.	Nil
6	Prof. Subrata Halder	M.Tech.	Assistant Professor	Water Resource & Pre-stressed Engg. Structural Engg.	Teaching -2 yrs.	Nil
7	Prof. Pampa Sen	M.Tech.	Assistant Professor	Structural Engg. & Concrete Technologist	Industry -5 yrs. Teaching-1 yr.	Nil
8	Prof. Swapan Kumar Ghoshal	M.Tech.	Assistant Professor	Highway Engg. & Quantity Surveying	Industry -25 yrs. Teaching- 4 yrs.	Nil
9	Prof. Pritam Dhar	M.Tech.	Asst.Prof.	Geotechnical Engineering	Teaching-4Yrs. Industry -Nil	Nil
10	Prof. Debojyoti Dhar	M.SC	Asst Prof	Applied Geology	Industry - 2 Yrs, Teaching - Nil	Nil

11. **List of senior visiting faculty:** Nil
 12. **Percentage of lectures delivered** : nil
 And practical classes handled (program wise) by temporary faculty
 13. **Student-Teacher Ratio** : B. Tech – 15:1
 14. **Number of academic support staff (technical) and administrative staff sanctioned and filled**

Position	Sanctioned	Filled
Technical Staff	04	04
Administrative Staff	05	05

15. **Qualifications of teaching faculty:** PhD-00
 with D.Sc. / D.Lit. / Ph.D. / M Phil. /PG. ME/M TECH - 08, PGDM-01, M.SC-01
 16. **Number of faculty with ongoing projects from**
 a) **National**
 b) **International funding agencies and grants received**
 17. **Departmental projects funded by** : NIL
 18. **Research Centre/facility Recognized by the University** : NIL
 19. **Publications: Conference Publications:** 10

a) Publication per faculty

Number of papers published in peer reviewed journals (national/international) by faculty and students:

Number of publications listed in International Database

(e.g.: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

Sl.No	Year	No. of Faculty Journals/Publications
1	2013-14	1
2	2014-15	2
3	2015-16	5
4	2016-17	1
5	2017-18	1

- * Monographs : Nil
 * Chapter in Books : Nil
 * Books Edited : Nil
 * Books with ISBN/ISSN : Nil
 numbers with details of publishers
 *Citation Index :
 *SNIP :
 *SJR :
 * Impact factor :
 *h-index :

20. **Areas of consultancy and** :
The department caters the following consultancy in the areas of

- Quality Assessment of Building and Road Materials
- Soil Investigations
- Surveying
- Quality Control Supervision

Income generated :

Type of work	Name of Company	Income (Rs.)
Soil and Aggregate test	M/S K. N. Dadina	10000.00

21. Faculty as members in

- National committees:
- Inter National Committees
- Editorial Boards:

Sl. No.	Faculty Name	Name of Committees
1.	Prof. Mrinal Mukherjee	1) Member of Indian Water Works Association
		2) Member of All India Public Health Engineers Association
		3) Member of the Institute of Engineers, India
2.	Prof. Srijan Mukherjee	1) Life member of Indian Road Congress
4.	Prof. Pampa Sen	1) Associate member of Institute of Engineers, India
5.	Prof. Supravat Chattopadhyay	1) Life Member of Institute of Engineers, India
		2) Member of Nigerian Institute of Engineering
		3) Member of Council of Regulation of Engineering in Nigeria (COREN)
6.	Prof. Gautam Bondyopadhyay	1) Member of Canadian society of civil engineers (CSCE)
		2) Member of water conservation professionals
		3) Member of Indian council of Contract and Project Management
		4) Member of Sewage and Waste water professionals
		5) Former member of BNCCI
		6) Building Congress Indian
		7) Indian Concrete Institute

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/program:	100%
b) Percentage of students placed for projects in organizations outside the institution i.e., in Research laboratories/Industry/ other agencies :	0%

23. Awards/Recognitions received by faculty and students

Sl. No.	Faculty Name	Event Participated	Certification
1	Prof. Srijan Mukherjee	Two Week ISTE STTP on Introduction to Structural Engineering	Certified on 2016
		NPTEL Online Certification (Elite Class + Printed Gold Medal) on Project Planning and Control	Certified on 2016
		Mentoring Certification on Project Planning and Control	Certified on 2016
		Short –Term Training Programme on Analysis & Design of Shallow Foundations	Certified on 2016
		Two days program on Current Trends in Research Methodology and Statistical Analysis	Certified on 2017
		One day faculty development Programme on Hands-on session on MX with Open Roads Technology	Certified on 2017
		Two Week ISTE STTP on Introduction to Structural Engineering	Certified on 2016
2	Prof. Subrata Halder	Three Week UGC sponsored Refreshment	Certified on 2017

		course titled “Built Environment and Sustainable technologies”	
		Short Term Training Programme on Research Methodology in Technical Education	Certified on 2017
3	Prof. Pampa Sen	Two Week ISTE STTP on Introduction to Structural Engineering	Certified on 2016
		Three Week UGC sponsored Refreshment course titled “Built Environment and Sustainable technologies”	Certified on 2017
		Rewarded Chartered Engineer from Institute of Engineers, India	Certified on 2016

Students:

Sl. No.	Students' Name	Event Participated	Certified/ Participated
1	Subhrarup Banerjee Suvadeep Mondal Supriyo Banerjee Tanmoy Maity Ayan Lodh	Workshop organized on STAAD PRO software in association with IIT- Bhubaneswar and RoboEdutech India Pvt. Ltd. on August, 2015	Rewarded as 3 rd Winner from ROBOHUNK in association with WISSNAIRE IIT Bhubaneswar & Robo Edutech India Pvt. Ltd.
2.	Sri Priyank Patel & Sri Amarjit Nag)	Konark Cements and AIMA presents Aadhar Quiz 2015	attended zonal competition at Bhubaneswar
3.	4 th Year Students	Seminar “Green Building for Urban Habitate in India”organized by IEST,Shibpur premises on 10/4/15	Participated
4.	Sri Ritwik Das	Technical Competition ‘Bridge Design Challenge ’has been held in association with Technex’15, IIT (BHU) Varanasi organized by Civil Simplified at Kolkata on 05/01/15	Awarded with ‘Best Design’ performance
5	Zishan Rahaman	NPTEL Online Certification on Project Planning and Control (2016)	Elite Class Certification

24. List of eminent academicians and scientists/visitors to the department:

Sl. No.	Name of the Person	Designation	Institute / Organization
1	Prof. Arun Chakroborty	Professor	IEST, Shibpur
2	Prof. Manasendu Banerjee	Former Professor	NIT Durgapur & Consultant to M/S. Archtech Consultants Pvt. Ltd.
3	Mr. Barun Dam	Former. Chief Engineer	PWD- Roads, WB
4	Mr.Kashinath Bose	Executive Engineer	WBIIDC
5	Mr Balaram Mukherjee	Former Technical Director	M/S K.N.DADINA –Piling Contractor, Soil Investigation Specialist
6	Prof. J.J. Mondal	Professor	NITTR, Kolkata
7	Mr. Tapas Ghatak	Former Head Urban Planning Advisor, GIS Expert	Department-Environment Cell, Urban Development Department, Government of West Bengal/Govt of India
8	Mr. Suddhabrata Gangopadhyay	Former Senior General Manager	Development Consultants Pvt LTD, Formerly Kuljian Corporation – Philadelphia,USA.
9	Dr. Madhusudan	Former Reader	Civil Department Jadavpur

	Chakroborty		University
		Former Director	National Institute of Technical Teachers' Training & Research Kolkata.
10	Dr. Kalyan Kumar Ganguly	Executive Director	M/S Development Consultants Limited
11	Mr. Pulak Chattopadhyay	Project Manager	L&T – Kolkata Metro
12	Mr. Arun Chatterjee	Dy. Project Manager	L&T – Kolkata Metro

25. Seminars/Conferences/Workshops organized & the source of funding

- National : Nil
- International : Nil
- College/society: Workshop- 1, Seminar- 5, Educational Trip- 5, Tech Fest- 2.
- Source of Funding: Institution.

Sl. No.	Name of Seminar/ Workshop	Name of coordinator	Date
1.	Educational Trip PANCHET DAM VISIT to Understand Geology Data and Hydraulic Structure	Prof. (Dr.) Somendra nath Roy	19/10/ 2014- 21/10/14
2.	Seminar on DEEP & PILE Foundation	Prof. Gautam Bondyopadhyay Prof. Suprovat Chatterjee	31/01/15 (One day Seminar)
3.	STAAD PRO software in association with IIT- Bhubaneshwar and Robo Edutech India Pvt. Ltd.	Prof. Gautam Bondyopadhyay Prof. Srijan Mukherjee	26/8/2015-27/8/2015
4.	Capacity Analysis Of Uncontrolled Intersections	Prof. Srijan Mukherjee Prof. Gautam Bondyopadhyay	29/08/2015
5.	One Dav Educational tour to Water Treatment Plant on Dakshin Roypur, South 24 Parganas. West Bengal under Public Health Engineering Directorate, South 24 Parganas Water Supply Circle, Govt. of West Bengal	Prof. Mrinal Mukherjee Prof. Gautam Bondyopadhyay	21/09/2015
6.	Tech Fest: VOYAGE -2016	All Faculty Members	29/01/2016- 30/01/2016
7	Insight of Modern Techniques in Civil Engineering and Sustainability	Prof. Pampa Sen Prof. Gautam Bondyopadhyay	31/03/2016- 01/04/2016 (2 days seminar)
8	Educational Trip JAJHRA COAL FIELD VISIT to Understand Geology Data, Civil and Structural Details, Seepage of Shaft etc of Underground Coal Mines	Prof. (Dr.) Somendra Nath Roy Prof. Pampa Sen	02/10/2016- 03/10/2016
9	Educational trip Dakshin Raipur for visit waste water treatment plant, South 24 Parganas, West Bengal under Public Health Engineering Directorate, South 24 Parganas Water Supply Circle, Govt. of West Bengal	Prof. Mrinal Mukherjee Prof. Gautam Bondyopadhyay	03/10/2016
10	Techniques of concrete testing, chimney design, soil investigation & solid waste management in "Urban planning & its sustainability"	Prof. Gautam Bondyopadhyay Prof. Pampa Sen	04/10/2016- 05/10/2016 (2 days seminar)
11	Educational visit to Kolkata Airport to Garia Metro rail project site at New Town, Rabidratirtha to City Centre II and pre cast yard at	Prof. Gautam Bondyopadhyay Prof. Subrata Halder	03/04/2017

	Barasat.		
12	Tech Fest: VOYAGE -2017	All Faculty Members	07/08/2017-08-08-2017
13	Modern Day's Construction Methodology & Management	Prof. Gautam Bondyopadhyay Prof. Subrata Halder	12/08/2017 (1 day seminar)

26. Student profile program/course wise:

*M=Male *F=Female

Name of the program	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Tech(CE) 2017-18	9	9	7	2	Yet to pass
B.Tech(CE) 2016-17	72	72	66	6	Yet to pass
B.Tech(CE) 2015-16	51	49	46	3	Yet to pass
B.Tech(CE) 2014-15	46	45	38	8	Yet to pass
B.Tech(CE) 2013-14	44	43	36	7	100
B.Tech(CE) 2012-13	70	69	62	8	100

27. Diversity of Students:

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
B.Tech(CE) 2017-18	100	0	0
B.Tech(CE) 2016-17	100	0	0
B.Tech(CE) 2015-16	100	0	0
B.Tech(CE) 2014-15	95.6	4.35	0
B.Tech(CE) 2013-14	90.9	9.09	0
B.Tech(CE) 2012-13	97.14	2.85	0

28. How many students have cleared national and state competitive examination such as NET, SLET, GATE, NICMAR Civil Services Defense Services etc.?

Note: - Detail as under:

Details of Competitive Exam	2016-17	2015-16	2014-15
GATE	1	3	1
NICMAR	3	4	3
MAT	1	0	1

Note: - Detail as under:

Details of Competitive Exam	2016-17	2015-16	2014-15
GATE	1. Tushar Kanti Das	1. Tanmoy Maity 2. Anibrata Chatterjee 3. Britika Mazumdar	1. Sayantan Banajee
NICMAR	1. Arindam Hazra 2. Sk Samirul 3. Ranajoy Bhattacharjee	1. Souvik Dhara 2. Anupam Chanda 3. Bhen Prakash Roy 4. Supriyo Dutta	1. Pratik Dutta 2. Sourav Bera 3. Mrinal Dipak Shah
MAT	1. Saptarshi Majumdar	-	1. Neha Roy Choudhury

29. Student progression

Student progression	Against % enrolled
UG to PG	9
Employed	
• Campus selection	56.28
• Other than campus recruitment	1
Entrepreneurship/Self-employment	0

30. Details of Infrastructural facilities

a)	Library	Department Avails Central Library Facilities
b)	Internet facilities for Staff & Students	Airtel and Aircel-33 Mbps
c)	Class rooms with LCD facility	Seminar Hall
d)	Total Number of Class Rooms	The classrooms are centralized at College level, however 4 number of classrooms and 1 no Drawing Hall are allocated to the department for conducting classes.
e)	Laboratories	7

Sl. No.	Name of Physical Lab.	Carpet Area (Sq. m.)	Total Instrument Cost
1	Soil Mechanics Lab	67.89	Rs 439921.00
2	Concrete Lab	92.12	Rs 289509.00
3	Highway & Transportation Lab	67.63	Rs 336675.86
4	Environmental Lab	98.99	Rs 189086.00
5	Geology Lab	90.27	Rs 113406.00
6	CAD/STAAD Lab	76.02	Rs 954000.00
7	Survey Lab	66.60	Rs 318970.00
Total		559.52	Rs 26,41,567.00

Laboratory Facilities:

The Department has 7 fully equipped state-of-the-art laboratories supervised by experienced faculty members. There are trained technicians to help the students in performing the experiments. In order to give practical know-how to the students for the theoretical topics studied by them in the class room, various labs like Surveying lab, Geotechnical Engineering lab, Concrete Technology lab, Transportation Engineering lab, CAD lab, STAAD Lab and Environmental Engineering lab are fully set up with the latest equipment and facilities. The students can perform the entire practical on their own, keeping the track of latest trends in the field under the keen supervision of specialized faculties. The labs are one of the finest laboratory facilities for the aspiring Civil Engineering students.

• **Soil Mechanics Laboratory**

Description of the Lab:

The soil lab provides academic and research services through performing all lab tests needed for analysis and study of soil characteristics and its properties. This lab concentrates on foundation engineering with emphasis on soil sampling, shear strength measurements and site investigation.

Major Equipment:

Sl.No.	Equipment' Name	No.
1	Soil hydrometer	1
2	Liquid limit device (Cassagrande Type)	1
3	Plastic limit apparatus	1
4	Shrinkage limit apparatus	1 set
5	Curt cutter apparatus with Dolly	1
6	Sand pouring cylinder	1
7	Direct shear apparatus	1
8	Triaxial shear apparatus	1
9	Vane shear apparatus	1
10	Permeability apparatus	2
11	Air tight container	12
12	Consolidation Apparatus	1
13	Proctor Compaction Mould with accessories	1 Set

14	Hot Air Oven	1
15	Unconfined compression tester	1
16	Electronic weighing balance	2
17	Relative density apparatus (Pycnometer)	1

- **Concrete Lab**

Description of the Lab:

Materials testing are the process of pulling, bending, twisting, turning, hitting, and squeezing materials or components to make sure they withstand the intense stresses, strains and impact forces they are likely to experience in use and application. In other words, materials' testing examines the overall strength, toughness, flexibility, suitability and fitness for purpose. Compression and tensile testing are the oldest and most common materials tests performed. Concrete has relatively high compressive strength, but significantly lower tensile strength, and as such is usually reinforced with materials that are strong in tension. Compressive strength of concrete can be determined in this lab using Compression testing machine. Non-destructive testing can be done with the help of Rebound Hammer. Concrete can also be pre-stressed (reducing tensile stress) using internal steel cables (tendons), allowing for beams or slabs with a longer span than is practical with reinforced concrete alone. Inspection of concrete structures can be non-destructive if carried out with equipment such as a Schmidt hammer, which is used to estimate concrete strength.

Major Equipment:

Sl. No.	Equipment' Name	No.
1	Slump test Apparatus	1
2	Compaction factor test Apparatus	1
3	Laboratory Concrete mixture	1
4	Cube mould	5
5	Cylindrical mould	2
6	Le Chatelier mould	2Set
7	Le Chatelier flask	1
8	Gauging trowel	2
9	Measuring cylinder 1000 ml	2
10	Vicat needle apparatus	1
11	Water bath (650*300*175)	1
12	Vee - bee Consistometer.	1
13	Motorised Sieve shaker	1
14	Compressive Strength test apparatus.	1
15	Test sieve 90 micron dia. For Cement Test	1
16	Cleaning Brush	1
17	Digital balance (50 kg capacity & 10kg capacity)	1+1
18	Pycnometer	1
19	Enamel tray	4
20	Sieve set size 80,40,20,12.5,10, 5 (30cm dia)	1each
21	Sieve set size 4.75,2.36, 1.18, 600,300, 150 micron (15 cm dia brush made)	6 set
22	150 mm Dia brush made Pan and Lead for Sieve sets	1 set
23	Blain Air permeability Apparatus	1set
24	Specific Gravity Apparatus for Course Aggregate	1
25	Schmidt Rebound Hammer	1
26	Bulk Density Measuring Apparatus (3 ltr & 15 ltr)	1+ 1
27	Thermostatically Controlled Laboratory Curing Tank	1

- **Highway/Transportation Lab**

Description of Lab:

Transportation lab consists of equipment used in the testing of bituminous materials such as viscosity, ductility and plasticity and other devices for super-pave testing of bitumen and aggregates. There are other devices for mix design by both Super pave and Marshall Methods. Aim of this lab is to understand the quality of aggregate and bitumen i.e. the primary material of road construction and finally to evaluate the quality of road.

Major Equipment:

Sl.No.	Equipment' Name	No.
1	Los angeles abrasion testing machine	1
2	Aggregate impact testing machine	1
3	Ring & ball apparatus	1
4	CBR Test Apparatus	1
5	Universal Penetrometer for Bitumen	1
6	Flash and Fire point apparatus (Pensky Marten Open Cup Type)	1
7	Benkelman Beam Apparatus	1
8	Dynamic Cone Penetration Apparatus	1
9	Dynamic Film stripping device	1
10	Length gauge	1
11	Thickness gauge	1
12	Electronic weighing machine	1

- **Environmental Lab**

Description of the Lab:

The Environmental Lab comprises of modern and technically advanced instruments needed for water and wastewater analyses. The lab has also many in-situ devices and equipment to perform different types of measurements and to take grab and composite water, wastewater samples. Primarily deals with physical, chemical and bacteriological analysis of portable water and sewage.

Major Equipment:

Sl.No.	Equipment' Name	No.
1	Jar testing apparatus	1
2	Digital Turbidity Meter	1
3	Digital ph Meter	1
4	Vacuum Pump	1
5	Steam bath Apparatus	1
6	Distilled Water Plant	1
7	Hot Air Oven	1
8	Analytical Balance	1
9	Electronic balance	1
10	Conical flask & volumetric flask	5 + 20
11	Measuring cylinder	2
12	Desiccators with porcelain plate	2
13	Beaker 500ml capacity	8
14	Reagent bottle with stopper	25
15	Pipette Graduated type	40
16	Burette	10

- **Geology Lab**

Description of the Lab:

In Engineering geology lab, rock samples, mineral samples, models showing fault and fold, color and texture, feel properties, magnetism are available. Engineering Geology is a very important subject of Civil Engineering as it deals with the behavior of rocks below the surface of the earth. Geological factors below the ground may affect the design, construction, operation and site selection of any project work especially for dams. Engineering Geologist investigate and provide geologic and geotechnical suggestions, analysis and design. Geologist may provide suggestions regarding earthquake analysis for buildings, bridges, dams etc. Stability of slopes, erosion of soil, flooding, dewatering and seismic investigation. Geological maps are also studied in Engineering Geology Lab to understand the history of rock formation in particular strata.

Major Equipment:

Sl.No.	Equipment' Name	No.
1	Digital Binocular Microscope	1
2	Polarizing Petrological Microscope	1
3	MotiCam Digital Camera & Analytical software	1
4	Moh's Scale Hardness Kit Box	1 set
5	Clinometer Compass	1
6	Various collections of Geological Models	6 set
7	Projector and Computer.	1 set

- CAD Lab**

Description of the Lab:

AutoCAD is a software application for computer-aided design (CAD) and drafting. The software supports both 2D and 3D formats. In this lab the 37 advanced configured computers are provided to fulfill the needs of civil engineering students. It is useful in Building Planning and designing, drawing the elements and designs the components of buildings. These drawing files are also used to estimate the cost of any building may be residential, commercial, industrial, institutional or any other.

Major Equipment:

1) LCD Projector, 2) Printer, 3) Laptop, 4) 30 No. of Computers

- Survey Lab**

Description of the Lab:

Surveying is the process by which a surveyor measures certain dimensions that generally occur on the surface of the Earth. Surveying equipment, such as levels and theodolite are used for accurate measurement of angular deviation, horizontal, vertical and slope distances. With computerization, electronic distance measurement (EDM), total stations, GPS surveying and laser scanning have supplemented the traditional optical instruments. This information is very important to convert the data into a graphical representation of the Earth's surface, in the form of a map. This information is then used by civil engineers and contractors to design from, build on, and trade, respectively. Elements of a building or structure must be correctly sized and positioned in relation to each other and to site boundaries and adjacent structures.

Major Equipment's:

Sl.No.	Equipment' Name	No.
1	Metric Chain (30mtr)	5
2	Metric Chain (20mtr)	3
3	Metric Tape (30 meter)	4
4	Steel Tape (10 meter)	1
5	Ranging Rod (dia 30mm)	15
6	Arrows	15
7	Optical Square	4

8	Prismatic Compass	6
9	Plane Table with stand accessories	6
10	Dumpy level with stand	5
11	Auto level	3
12	Vernier Theodolite (20 second)	6
13	Total Station (Digital SOKKIA 620K) with accessories	1

STAAD Lab

Description of the Lab:

STAAD is a software application for structural modeling and design of RCC and steel structure. In this lab the 37 advanced configured computers are provided to fulfill the needs of civil engineering students. It is useful in design for various kinds of residential and commercial buildings, bridges, trusses, trestle, and industrial buildings and so on.

Major Equipment:

1) STAAD Pro Vi8 Software	30
2) Industry Standard Drawing & Drafting Software	30
3) High Performance Desktop Computers	30

31. Number of students receiving financial Assistance from college, university, Government or other agencies :

Sl. No	Name of agency	Number of student benefitted	Total
1	Govt. of West Bengal	61	61
2	Institute Scholarships	28	28
3	West Bengal Minorities development Commission	58	58

32. Details on student enrichment programs (special lectures/workshops/seminar) with external experts:

SEMINARS/WORKSHOPS CONDUCTED BY CE DEPARTMENT

Sl. No	Title	Dates Conducted	Resource Person	No. of Students Attended
1	STAAD PRO Workshop	26-27 th August-2015	Robo Edu Tech Pvt Ltd	32
2	Deep and Pile Foundation	31 st January-2015	Mr. Balaram Mukherjee	110
3	Advanced Technology on Modern days Construction	31 st March -2016	Prof Manasendu Banerjee	120
4	Modern Technologies on Transportation & High way Construction	31 st March-2016	Mr. Barun Dam	120
5	Roof Top Rain Water Harvesting	1 st April -2016	Mr. Kashinath Bose	110
6	High Performance Concrete in Today's Construction	1 st April -2016	Prof Arun Chakraborty	110
7	Geotechnical Investigation & important Testing	4 th October-2016	Prof. J.J. Mondal	110
8	Solid Waste Management is yet to establish its Priority in "Urban Planning	4 th October-2016	Mr. Tapas Ghatak	110
9	Design Challenges- Tall Chimney	5 th October-2016	Mr. Suddhabrata Gangopadhyay	90
10	Destructive & Non Destructive Testing of Concrete	5 th October-2016	Dr. Madhusudan Chakraborty	90

11	The Modern MRTS-Elevated Metro	12 th August, 2017	Mr. Pulak Chattopadhyay & Mr. Arun Chatterjee	60
12	Concrete Technology and its uses	12 th August, 2017	Dr. Kunal Kr. Ganguly	60
13	Sustainable Urbanization and Wise Use of Natural ResourcesAre we compromising?	12 th August, 2017	Mr. Tapas Ghatak	60
14	Preparation of Bar Bending Schedule– Practical Aspects	12 th August, 2017	Mr. Arun Chatterjee	60

Special Training Conducted By CE Department

S. No	Title	Dates Conducted	Resource Person	No. of Students Attended
1	GIS Software	Full 8 th Semester (2016)	Prof. S. Mukherjee,	65
			Sri P. Roy	
2	Technical Aptitude	Full 8 th Semester (2016)	Prof. S. Chattopadhyay	70
			Prof. M. Mukherjee	

33. Teaching methods adopted to improve: Student learning Content Delivery Methods & Teaching Aids based on Bloom's K-Levels

List of Bloom's K-Levels	List of Content Delivery Methods		List of Teaching aids
K1	Remember	1. Lecture with Discussion	1. Black Board 2. LCD 3. Videos 4. Computer Models 5. Software 6. Power Point presentations and animations
		2. Lecture with Illustration	
		3. Lecture with Animated Videos	
K2	Understand	1. Lecture with Discussion.	
		2. Lecture with Demonstration	
		3. Collaborative Learning	
		4. Problem Solving (Text book oriented	
K3	Apply	1. Group Discussion	
		2. Role Play	
		3. Problem Solving (from GATE Question papers)	
		4. Laboratory Work	
		5. Flipped class room	
K4	Analyze	1. Think Pair Share	
		2. Lab Experiments	
		3. Case Studies	
		4. Simulations	
K5	Evaluate	1. Case Studies	
		2. Debate	
		3. Laboratory Work	
K6	Create	1. Mini Projects	
		2. Final year Projects	
		3. Summer/Winter Industrial Training	

Evaluation Procedure:

1. Distribution of period wise lectures note.
2. Evaluation of assignment at least 2 in number in a semester.
3. Surprise test at every module.
4. 100 short question with answers

Teachers are given autonomy in planning and executing their theory and laboratory classes. Laboratory classes are handled by two teachers in order to ensure personal attention to the students. Courses in - charge have the liberty to request for the equipment/accessories needed for effective conduct of their lab classes, through the HOD and the college considers the request favourably. Site visits and industrial visits are encouraged to provide real time exposure to students.

34. Participation in Institutional Social :

Activity	2016-17	2015-16	2014-15	2013-14
Sports	Total Participants = 44 students. Runner up in TT and champion in Football	Total Participants = 40 students. Runner up in cricket and champion in football	Total Participants = 45 students. Runner up in cricket, football, carom, Badminton and champion in chess	Total Participants = 35 students. Runner up in chess and champion in carom
National Service Scheme (NSS)	1+15 (T+S)	1+10(T+S)		
Activities related to protecting the environment	2 No Swatch Bharat Campaign & Tree plantation	2 No Swatch Bharat Campaign		
Anti Ragging Campaign	2 No Campaign per year, 2+6 (T+S)	2 No Campaign per year, 2+6 (T+S)		
Grievance Redressal	3 (T)	3 (T)		
Women Cell	1+3 (T+S)	1+3 (T+S)		
Mentoring Cell	2+3 (T+S)	2+3 (T+S)		

35. SWOC analysis of the department and Future plans

Strength	Weakness	Opportunity	Threats/Challenges
Highly creative, experienced senior faculty From Industry and dedicated faculty members.	Faculty Interaction with Outside World	Scope for Creation of Research and Development opportunities at Campus.	To generate innovative ideas and structure for development of department.
A distinct position in academic performance at the University level since inception	Less Number of Research Enabling Faculty	Access to various firms/industries to impart hands on training in all functional areas	To produce engineers with skills to meet the Industry and R&D requirements of the country.
More than 50% campus placements of the students.	Lack of Active research and consultancy	To establish a research centre in the department in collaboration with industry.	Equipping students for better placement opportunities
Well Equipped Laboratory, Internet and Class Rooms Facilities.	Communication Skill of Students and Quality of New Students are not good	Scope for Educational Collaboration with International Universities	To achieve 100% pass percentage and employability's in core organizations.

Central library with a good collection of books and journals to enrich the knowledge of the students	Lack of Advanced Training Programme to Young Faculty	MOUs with industries/Universities for student projects/internships.	Industrial Growth in the State is Poor. Job Availability for Freshers are deteriorating.
Good environment for Overall Development of Students. Goodwill of the stakeholders	Tie ups with Big Companies for Training and Compassing	To promote research to focus on the areas of construction industry's demands.	To encourage the admittance of majority of students in prestigious institutes for
Industry Oriented Curriculum Faculty adept in handling consultancy projects such as structural design, material property testing, evaluation of structural stability, monitoring of construction works and valuation of buildings	Low campus placement in core companies under present job market scenario		post graduate programmes/further job oriented training/studies
Expert Faculty members from Industry served as technical experts in various local/government bodies	Less flexibility in incorporating recent advancements in civil engineering field in the curriculum as the scheme and syllabus of the affiliating university is followed		
High faculty retention			

Future plans of the department

- Enrichment of the laboratory with the advanced equipment.
- To train students towards the quintessential leap from the course curriculum to the challenges in the field.
- Propose innovative technologies for the improvement of teaching learning process
- To Organize State and National Level Seminars sponsored by AICTE.
- To give students & faculty an experience in small research projects and papers
- To increase the participation in Open Online Courses for advanced learning at zero cost and to acquire new skills and improve their knowledge
- Increase MOU with industries
- Promote partnership and tie-ups across the globe with other world class Universities and institutions to explore different domains of engineering
- Setting up a high level lab for remote sensing and GIS.

Department of Computer Science and Engineering

1. Name of the department : Computer Science & Engineering
2. Year of Establishment : 2011
3. Names of Programmes / Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : B.Tech in Computer Science & Engineering
UG
4. Names of Interdisciplinary courses and the departments/units involved

Sl. No.	Course Name	Department
1	Analog & Digital Electronics	ECE
2	Communication & Coding Theory	ECE
3	Analog & Digital Electronics Lab	ECE
4	Communication & Coding Theory Lab	ECE
5	Micro Processor & Micro Controller	ECE
6	Micro Processor & Micro Controller Lab	ECE

5. Annual/semester/ Choice based credit system (programme wise) : Semester System
6. Participation of the department in the courses offered by other departments :

Sl. No.	Course Name	Department
1	Basic Computation & principle of Computer programming	ECE, CE, ME
2	Basic Computation & principle of Computer programming Lab	ECE, CE, ME
3	Data Structure & Algorithm	ECE
4	Data Structure & Algorithm Lab	ECE
5	Object Oriented Programming	ECE
6	Object Oriented Programming Lab	ECE
7	Database Management System	ECE
8	Database Management System Lab	ECE
9	Computer Networks	ECE
10	Computer Networks Lab	ECE
11	Computer Education	B Arch

7. Courses in collaboration with Other universities, industries, Foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of Teaching posts :

Position	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors	08	08

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4years
Prof. Dipankar Hazra	M.Tech	Assistant Professor & TIC	CSE	18 Years	Nil
Prof. Saikat Pahari	M.Tech	Assistant Professor	CSE	13 Years	Nil
Prof.(Dr.)Sandip Dey	M.Tech, Ph.D	Assistant Professor	CSE	13 Years	Nil
Prof. (Dr.)Dhrubajyoti Ghosh	M.Tech, Ph.D	Assistant Professor	CSE	6 Years	Nil

Prof. Suvojit Roy	M.Tech	Assistant Professor	CSE	4 Year	Nil
Prof. Piyali De	M.Tech	Assistant Professor	CSE	7 Year	Nil
Prof. Bhabani Sen	M.Tech	Assistant Professor	CSE	6 Years	Nil
Prof. Soma Saha	M.Tech.	Assistant Professor	CSE	3 Years	Nil

11. List of senior visiting faculty : 05
12. Percentage of lectures delivered : 0.2
And practical classes handled (programme-wise) by temporary faculty
13. Student-Teacher Ratio (programme wise) : 15:1
14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	01	01
Administrative Staff	05	05

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.
M TECH -06, Ph.D. - 02
16. Number of faculty with on going : Nil
(projects from a) National
b) International funding agencies and grants received
17. Departmental projects funded by: Nil
DST-FIST, UGC, DBT, ICSSR, etc. under MHRD Programme Govt. of India and total grants received INDIA.
18. Research Centre/facility Recognized by the University : Nil
19. Publications:

AY	No of papers	No of faculty
2016-17	03	03
2015-16	16	04
2014-15	10	04
2013-14	04	03

- Publication per faculty: 3.66
Number of papers published in peer reviewed journals (national/ international) by faculty and students
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.) : 10
- Monographs : 08 Course Files

Subject Code	Subject Name
CS201	Basic Computation & Principles of Computer programming
CS302	Data Structure & Algorithm
CS402	Formal Language & Automata Theory
CS502	Microprocessors & Microcontrollers
CS601	Database Management System
CS602	Computer Networks
CS701	Software Engineering
CS704C	Data Warehousing & Data Mining

- Chapter in Books : Nil
- Books Edited : Nil

- Books with ISBN/ISS numbers with details of publishers : Nil
 - Citation Index : Nil
 - SNIP : Nil
 - SJR : Nil
 - Impact factor : Nil
 - h-index : Nil
20. Areas of consultancy and Income generated : Nil
21. Faculty as members in
- a) National committees : Nil
 - b) International Committees : Nil
 - c) Editorial Boards : Nil
22. Student projects
- a) Percentage of students who have done in-house projects : 97%
 - b) Percentage of students placed for projects in organizations outside institutions : 3%

23. Awards/Recognitions received by faculty and students

Sl. No.	Students Name	Event Participated	Award Won/ Paper Presented
1		‘India Design Contest’, 2013	Certificate of appreciation by Texas Instruments
2	Subendhu Bhattacharya	International Journal of Innovative Research in Science, Engineering and Technology ISSN (Online) : 2319-8753 ISSN (Print) : 2347 - 6710	On Some Design Issues of Electronic Voting Machine
3	Subendhu Bhattacharya, Falki Samreen	IEEE Certification on Technical Paper Presentation From IIT Kharagpur. (KSHITIJ)	Up gradation Of EVM
4	Subendhu Bhattacharya, Suranjana Metla	NASSCOM Product Conclave E-summit, Business Plan Competition.	Semi Finalist, Product Idea:- Customized Smartphone & Tablet company, (Open Source Hardware)
5	Subendhu Bhattacharya, Abir Sinha, Sumit Sourav	Winner of Entrepreneurship awareness camp conducted by Dept of Science & Technology (DST) Govt. of West Bengal	New Business Venture Product Idea:- 3DIFY (Represent Graphics, Advertisements etc in 3 Dimensional structure)
6	Megha Didiwania	International Journal of Innovative Research in Science, Engineering and Technology	Design of an Improved E-Auction System
7	Arka Bhowmick	Resonance v9 robotics competition in two separate events. CEMK.	Winner in (i)Overtake (ii)Curb-o-botics

Faculty awards/rewards

Sl. No.	Faculty Name	Event Participated	Award Won/ Paper Presented/Participated
1	Prof. Saikat Pahari	'India Design Contest', 2013	Certificate of appreciation by Texas Instruments
2	Prof.(Dr.) Dhruvajyoti Ghosh	IEEE CALCON 2014	Best Paper Award - A Novel approach to find the Shortest Path of a Network using A* Search Algorithm
3	Prof. Suwendu Chattaraj	ICECEin Dhaka, 2014.	Particle filter based attitude matching algorithm for in-flight transfer alignment
4	Prof. Dipankar Hazra	IEEE Smart Tech Workshop in Bangalore, 2015	Participated
5	Prof. Saikat Pahari	ICCSE16, 2016	Paper presented
6	Prof. Piyali De	Workshop on Spoken Tutorial organized by WBUT, 2017.	Participated
7	Prof. (Dr.) Dhruvajyoti Ghosh	International Conference on Emerging Trends in Computing, Communication and Control , 2017	Paper presented
8	Prof. Bhabani Sen	NITTTR, 2017	Short Term Training Programme on "Research Methodology in Technical Education"

24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name of the Person	Designation	Institute / Organisation
1	Dr. Mita Nasipuri	Professor, CSE	Jadavpur University, Kolkata
2	Dr. Debashish De	HOD, CSE	MAKAUT, West Bengal
3	Mr. Soumen Knarar	Scientist	Veheretech, Kolkata
4	Mr. Vinayak Bandyopadhyay	Regional Operation Manager	TCS-Kolkata
5	Mr. Rajmohan De Sarkar	Director	Ardent Computech Pvt. Ltd.
6	Mr. Pradeep Kumar Sharma	Founder	Robosapiens Technologies Pvt. Ltd.

25. Seminars/Conferences/Workshops organized & the source of funding

- a) National : Nil
 b) International : Nil
 c) College : Seminar (1), Workshop (4)

26. Students profile programme/course wise

Name of the Course (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
Analog & Digital Electronics	23	23	12	11	Yet to pass
Analog & Digital Electronics Lab	23	23	12	11	Yet to pass
Communication & Coding Theory	13	13	7	6	100
Communication & Coding Theory Lab	13	13	7	6	100

*M=Male *F=Female

Name of the programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Tech(CSE) 2015-16	31	29	20	9	100%
B.Tech(CSE) 2014-15	24	23	12	12	100%
B.Tech(CSE) 2013-14	13	13	7	7	100%
B.Tech(CSE) 2012-13	31	31	23	8	100%
B.Tech(CSE) 2011-12	31	31	19	12	100%

27. Diversity of Students :

Name of the Course	%of students from the same state	%of students from other States	%of students from abroad
B.Tech(CSE) 2015-16	83%	17%	NIL
B.Tech(CSE) 2014-15	96%	4%	NIL
B.Tech(CSE) 2013-14	79%	21%	NIL
B.Tech(CSE) 2012-13	90%	10%	NIL
B.Tech(CSE) 2011-12	90%	10%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Name of the Competitive Examination	Name of Student
1.	GATE	Kundan Giri (2015)
2	GATE	Sayak Chaklader (2015)
3	CAT	Ashish Mshra (2015)

29. Student progression

Student progression	Against % enrolled
UG to PG	5%
Employed	
• Campus selection	35%
• Other than campus recruitment	21%
Entrepreneurship/Self-employment	1%

30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	2645
2	No of titles in central library	511
3	No of Journals in central library	6
4	No of pdf books in central library	43

b) Internet facilities for Staff & Students :

- 1) Common computer centre is available with 60 PCs.
- 2) All systems are connected to LAN.
- 3) Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility : Seminar room has LCD projector

d) Laboratories :

Sl. No	Physical Lab	Lab Size	No of Computers/ equipments
1.	Computing Lab I	75.2 sq.mtr	30
2.	Database Management System Lab	75.2 sq.mtr	30
3.	Networking Lab.	70.76 sq.mtr	30
4.	Computing Lab II.	80.33 sq.mtr	30

31. Number of students receiving financial : 15

Assistance from college, university, Government or other agencies

Financial Year	Name of the Organization	No of students	Total Amount
2012-2013	Govt. of West Bengal	03	9,00,000.00
2013-2014	Govt. of West Bengal/College	03+01	10,71,000.00
2014-2015	Govt. of West Bengal/College	03+02	12,36,000.00
2015-2016	Govt. of West Bengal	03	9,27,000.00

32. Details on student enrichment programmes (special lectures/workshops/Seminars)

Workshop

Sl. No	Title	Dates Conducted	Resource Person	No. of Students Attended
1	Android Application Development	9 th June to 13 th June 2015	Mr. Rajmohan De Sarkar	30
2	RoboTryst-2016	22 nd December, 23 rd December, 2015	Mr. Pradeep Kumar Sharma	38
3	ASP.Net with C#	9 th August to 13 th August, 2016	Mr. Rajmohan De Sarkar	30
4	Android Application Development	1 st August to 5 th August 2017	Mr. Rajmohan De Sarkar	35

Seminar

Sl. No	Title	Dates Conducted	Resource Person	No. of Students Attended
1	Recent Trends in Computing	3 rd March 2015	Dr. Debashish De, Mr. Soumen Karar, Mr. Vinayak Bandyopadhyay	40

33. Teaching methods adopted to improve student learning:

1. Chalk & Talk
2. LCD Projector
3. Seminars
4. Assignments
5. Projects
6. NPTEL video

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

Woman and Hygiene awareness, Child Literacy

35. SWOC analysis of the department and Future plans

Strengths

- 1 100% students passed consistently for the last 4years
- 2 Every year more than 20% students get more marks than CGPA8
- 3 Good lab and internet facilities
- 4 Young and Dynamic faculties
- 5 Well qualified faculties

Weakness

- 1 Some students are not proficient in communication skill
- 2 Some students are weak in mathematics
- 3 Faculty interaction with outside world
- 4 Gap between current industry trends and syllabus

Opportunities

- 1 Student development activities through workshop, seminar
- 2 Utilization of labs and faculties for training in Arduino Development
- 3 Utilization of labs for R&D
- 4 Faculty development through seminar, conferences

Challenges

- 1 Meeting the current technologies which keep changing everyday
- 2 To improve R&D activities
- 3 To improve placements
- 4 Higher studies for students

Future Plans

- 1 To organize national seminar at state and national level
- 2 To organize national conference
- 3 To improve lab facilities meeting current industry demand
- 4 To prepare students for higher studies

Department of Electronics & Communication Engineering

1. Name of the department: Electronics & Communication Engineering
2. Year of Establishment: 2010
3. Name of Course: B.Tech in Electronics & Communication Engineering
4. Names of Interdisciplinary courses and the departments/units involved

Sl. No.	Course Name	Department
1	Data Structure & Algorithm	CSE
2	Object Oriented Programming	
3	Data Base Management System	
4	Computer Networking	
5	Data Structure & Algorithm Lab.	
6	Object Oriented Programming Lab.	
7	Data Base Management System Lab.	
8	Computer Networking Lab.	

5. Annual / semester / Choice based credit system: Semester System
6. Participation of the department in the courses offered by other departments :

Sl.No.	Course Name	Department
1	Basic Electrical & Electronics (ES-101,ES-201)	CSE ,ME ,CE
2	Basic Electrical & Electronics Lab(ES-191,ES-291)	CSE ,ME ,CE
3	Analog & Digital Electronics	CSE
4	Analog & Digital Electronics Lab.	CSE
5	Communication & Coding Theory	CSE
6	Communication & Coding Theory Lab.	CSE
7	Microprocessors & Microcontrollers	CSE
8	Microprocessors & Microcontrollers Lab	CSE

7. Courses in collaboration with other universities/ industries, foreign institutions, etc.: Nil
8. Details of courses/ programmes Discontinued (if any) with reasons: Nil
9. Number of Teaching posts : 08

Position	Sanctioned	Filled
Professors	00	00
Associate Professors	02	02
Assistant Professors	06	06

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil. etc.):

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4years
Prof. Swapan Majumder	M.Tech.	Assistant Professor	ECE	26Years	Nil
Prof. Swarupa Ojha	M.Tech.	Assistant Professor & TIC	ECE	8 Years	Nil
Prof. Poulomi Das	M.Tech.	Assistant Professor	ECE	5 Years	Nil
Prof. Mainak Mukherjee	M.Tech.	Assistant Professor	ECE	1 Year	Nil
Prof. Sudipta Chatterjee	M.Tech.	Assistant Professor	ECE	5 Year	Nil
Prof. Sudipta Ghosh	Ph. D	Associate Professor	Communication	13 Years	01
Prof. Gautam Maity	Ph. D	Associate Professor	Communication	15 Years	04
Prof. Sangeeta Jana	M.Tech.	Assistant Professor	ECE	4 Years	NIL

11. List of senior visiting faculty : 04
 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : 0.2
 13. Student - Teacher Ratio (programme wise) : 15:1

Number of academic support staff (technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	01	01
Administrative Staff	05	05

14. Qualifications of teaching faculty:

No. of faculty with Ph.D	No. of faculty with ME/M.Tech
02	06

15. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received : Nil
 16. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. under MHRD program, Govt. of India, and total grants received: Nil
 17. Research Centre / facility recognized by the University: Nil
 18. Publications:

Academic Year	No. of Papers	No. of Faculty
2016-17	01	01
2015-16	15	03
2014-15	05	02
2013-14	05	02
2012-13	18	03

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host etc.)

- Monographs : 07 Course Files

Sl. No.	Paper Name	Paper Code
1	Basic Electrical & Electronics Engineering-I (Electronics)	ES-101
2	Solid State Devices	EC-302
3	Analog & Digital Electronics	CS 301
4	Digital Electronic & Integrated Circuits	EC 402
5	Communication Engineering & Coding Theory	CS-401
6	Microprocessors & Microcontrollers	EC-502
7	Digital Signal Processing	EC-602

- Chapter in Books : Nil
- Books Edited : Nil
- Books with ISBN/ISS :

Sl. No.	Name of Faculty	Name of Book	Publisher	ISBN/ISS
1	Prof. Sudipta Ghosh	Solving Real-World Constrained Handling Optimization Problems Using Gradient Repair Differential Evolution	LAP LAMBERT Academic Publishing	ISBN:978-3-659-96283-7

- Citation Index : Nil
- SNIP : Nil
- SJR : Nil
- Impact factor : Nil
- h-index : Nil

19. Areas of consultancy and Income generated : Nil

20. Faculty as members in

- d) National committees : Nil
 e) International Committees : Nil
 f) Editorial Boards : Prof. Sudipta Ghosh

21. Student projects

- a) Percentage of students who have done in-house projects including inter departmental programme: 100%
 b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry/ other agencies: 0%

22. Awards/Recognitions received by faculty and students

Details of Faculty participation in different events:

Sl. No.	Faculty Name	Event Participated
1	Poulomi Das	Short Term Training Programme on “Research Methodology in Technical Education” during 03-07, July 2017 at NITTTR.
2	Sudipta Chatterjee	Workshop on ‘E-learning: Challenges and Opportunities’ organized by British Council and All India Council for Technical Education on 2 nd May, 2017
3	Poulomi Das	Workshop on “EMERGING PROSPECTS IN WIRELESS SENSOR NETWORK”, organized by Department of Instrumentation and Electronics Engineering, Jadavpur University on 10 th March, 2017
4	Swarupa Ojha	Short term course on Embedded System Design- 5days (20 th – 24 th June, 2016), conducted by IIT, Kharagpur.
5	Poulomi Das	Short term course on Embedded System Design- 5days (20 th – 24 th June, 2016), conducted by IIT, Kharagpur.
6	Swapan Majumder	Faculty Development Programme on “Physics and Application of Electromagnetic Wave Propagation” technically sponsored by IE(I), financially sponsored by TEQIP-II during 4 th -8 th Jan 2016
7	Poulomi Das	Workshop on “CONTROL SYSTEM”, conducted by IIT Kharagpur from 2 nd to 12 th December, 2014
8	Poulomi Das	Workshop on “SIGNALS & SYSTEM”, conducted by IIT Kharagpur from 2 nd to 12 th January, 2014
9	Srutiparna Neogi	Workshop on “SIGNALS & SYSTEM”, conducted by IIT Kharagpur from 2 nd to 12 th January, 2014

Awards/Recognitions received by students participated in different events:

Sl. No.	Student name	Event Participated	Awards won
1	Anupama Gupta	Zonal level Robotics Competetion of NRC 2013-14	Zonal Winner
2	Hussain Ahmed Shah Gilani	Zonal level Robotics Competetion of NRC 2013-14	Zonal Winner
3	Anupama Gupta	National Robotics Championship 2013-14 conducted by IIT-Bombay	Recognised for showing extra-ordinary efforts
4	Hussain Ahmed Shah Gilani	National Robotics Championship 2013-14 conducted by IIT-Bombay	Recognised for showing extra-ordinary efforts
5	Anupama Gupta	ESCALADE(Prelims) at IIT,Guwahati	Secured II Position
6	Anupama Gupta	ESCALADE(Mains) at IIT,Guwahati	Participation certificate

7	Debjit Karar	Robo-soccer competition of Karmatek 2017	Participation certificate
	Debjit Karar	Robo-race competition of Karmatek 2017	Participation certificate
	Debjit Karar	Electrostuck competition of Paridhi 2016	Participation certificate
8	Soumyajoti Mukherjee	Robo-soccer competition of Karmatek 2017	Participation certificate
	Soumyajoti Mukherjee	Robo-race competition of Karmatek 2017	Participation certificate
	Soumyajoti Mukherjee	Electrostuck competition of Paridhi 2016	Participation certificate
9	Sounak Mondal	Robo-soccer competition of Karmatek 2017	Participation certificate
	Sounak Mondal	Robo-race competition of Karmatek 2017	Participation certificate
	Sounak Mondal	Electrostuck competition of Paridhi 2016	Participation certificate

23. List of eminent as academicians and scientists / visitors to the department

Sl. No.	Name of the person	Designation	Institute / Organization
1	Prof.Salil Sanyal	Professor	ETCE Dept. Jadavpur University
2	Prof.Sayan Chatterjee	Professor	ETCE Dept. Jadavpur University
3	Prof. Susanta Parui	Professor	ETC,IEST, Shibpur
4	Dr. Kamal Dasgupta	Director	CGCRI, Jadavpur

25. Seminars/Conferences/Workshops organized & the source of funding

- National: Nil.
- International: Nil
- College/society: Seminar-1, Workshop-3

26. Student profile programme / course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.TECH (ECE) 2012-2013	23	23	14	9	100
B.TECH (ECE) 2013-2014	7	7	4	3	100
B.TECH (ECE) 2014-2015	9	9	5	4	Yet to pass
B.TECH (ECE) 2015-2016	15	11	10	1	Yet to pass

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	%of students from the same state	% of students from other States	% of students from abroad
B.TECH (ECE) 2011-12	35	3	0
B.TECH (ECE) 2012-13	23	0	0
B.TECH (ECE) 2013-14	07	0	0
B.TECH (ECE) 2014-15	09	0	0
B.TECH (ECE) 2015-16	11	0	0

28. Details of students who have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc:

Sl. No.	Name of the Competitive Examination	No of Students Cleared	Name of Student
1.	GATE	01	Anupama Gupta (2016)
2	GRE	01	Sukrita Srivastava (2015)
3	UPSC (Indian Army)	01	Prosenjit Malick (2014)

29. Student progression

Student progression	Against %enrolled
UG to PG	10%
Employed	60%
• Campus selection	20%
• Other than campus recruitment	
Entrepreneurship/Self-employment	10%

30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	1259
2	No of titles in central library	320
3	No of Journals in central library	6
4	No of pdf books in central library	16

b) Internet facilities for Staff & Students available : Yes

- i. Common Computer Center
- ii. All systems are connected to LAN
- iii. Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility: Seminar room has LCD projector

d) Laboratories:

Sl. No.	No of Physical Lab/Curriculum Lab.	Mentainance	No of Experiments
1	Basic Electronics Lab.	ECE Department	10
2	Basic Electrical Lab.	ECE Department	13
3	Circuit Theory & Network Lab.	ECE Department	09
4	Solid State Devices Lab.	ECE Department	09
5	Signal System Lab.	ECE Department	08
6	Analog Electronics Circuit Lab.	ECE Department	15
7	EM Theory & Tx Line Lab.	ECE Department	10
8	Digital Electronics Lab.	ECE Department	15
9	Analog Communication Lab.	ECE Department	10
10	Microprocessors & Microcontroller Lab.	ECE Department	08
11	Control System Lab.	ECE Department	09
12	Digital Communication Lab.	ECE Department	12
13	Digital Signal Processing Lab.	ECE Department	12
14.	VLSI Design Lab.	ECE Department	12

31. Number of students receiving financial Assistance from college, university, Government or other agencies:

Financial Year	Name of the Organization	No of students benefited	Total Amount
2012-2013	Govt. of West Bengal	02	6,00,000.00
2013-2014	Govt. of West Bengal	02	6,12,000.00
2014-2015	Govt. of West Bengal	02	6,18,000.00
2015-2016	Govt. of West Bengal	03	9,27,000.00

31. Details on student enrichment programmes (special lectures /workshops /Seminar) with external experts:

Sl. No.	Date	Name of the program	Resource Person	No of student participated
1	28.03.2015	Advanced Electronics & Communication System	Dr.Kamal Dasgupta, Director, CGCRI Prof.Salil Sanyal, JU Prof.Sayan Chatterjee, JU	100
2	22.12.2015 23.12.2015	RoboTryst-2016	Robosapiens Technologies Pvt. Ltd. in association with IIT; Delhi	40
3	10.02.2016 11.02.2016 12.02.2016	LabVIEW Based System Design	Powered by NATIONAL INSTRUMENTS, conducted by Adlabt Solution	30
4	19.05.2017 20.05.2017	Mobile Phone Controlled Robot using AVR Microcontroller	Dalvik Apps	30

33. Teaching methods adopted to improve Student learning:

- a) Assignment & Class tests
- b) Group Discussion
- c) Project Works
- d) Power point presentations

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

Woman and Hygiene awareness, Child Literacy

35. SWOC analysis of the department and Future plans

STRENGTH:

- a) Very good infrastructure & Laboratory facilities
- b) Experienced and dedicated Faculty members
- c) Well behaved and disciplined students

WEAKNESS:

- a) PhD qualified faculty members in the department are less.
- b) Lack of Visiting Faculty

OPERTUNITES:

- a) To Provide better opportunities for students to improve their technical skills
- b) To prepare students for campus placement, GATE and other competitive examinations.

CHALLENGES:

- a) To inspire students to set and achieve goals
- b) Encourage students to become entrepreneurs.

Department of Mechanical Engineering

1. Name of the Department: Mechanical Engineering
2. Year of Establishment: 2010
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): B. Tech in Mechanical Engineering
4. Names of Interdisciplinary courses and the departments/units involved

Sl. No.	Name of Course	Handled by
1	Basic Electrical and Electronics Engineering	ECE
2	Basic Electrical and Electronics Engineering Lab	ECE
3	Basic Computation & Principle of Computer Programming	CSE
4	Basic Computation & Principle of Computer Programming Lab	CSE

5. Annual/ semester/choice based credit system (programme wise): Semester Based.

6. Participation of the department in the courses offered by other departments

Sl. No.	Name of Course	User Dept.
1	Material Science	CE
2	Building Structure-III	Architecture
3	Engineering Mechanics	ECE, CSE
4	Engineering Thermodynamics & Fluid Mechanics	ECE, CE, CSE
5	Fluid Mechanics	CE

7. Courses in collaboration with other universities, industries, foreign institutions etc.: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts

Position	Sanctioned	Filled
Professors	00	00
Associate Professors	00	00
Asst. Professors	07	07

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Prof. Samiran Maity	ME	Assistant Professor & HOD	Manufacturing Technology	36	Nil
Prof. Parthasarathi Chattopadhyay	M. Tech	Assistant Professor	HT	37	Nil
Prof. Ramen Kanti De	PhD (Pursuing), ME	Assistant Professor	Heat Power	4	Nil
Prof. Ranjit Barua	PhD (Pursuing), M. Tech	Assistant Professor	Manufacturing Technology	3	Nil
Prof. Supriya Adak	M. Tech	Assistant Professor	Aerospace Engineering	1	Nil
Prof. Sumit Bhowmik	M. Tech	Assistant Professor	Machine Design	1	Nil
Prof. Aniruddha Sarkar	PhD (Pursuing), ME	Assistant Professor	Fluid Mechanics	5	Nil

11. List of senior visiting faculty: 03
 12. Percentage of lectures delivered and practical classes handled by temporary faculty: 0.2
 13. Student -Teacher Ratio (programme wise): 15.1
 14. Number of academic support staff and administrative staff; sanctioned and filled

Support Staff	Sanctioned	Filled
Technical Staff	04	04
Administrative Staff	05	05

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:
 ME/MTech-07Ph.D-Nil
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre /facility recognized by the University/ Applied for University: Nil
19. Publications:

AY	No of papers	No of faculty
2016-17	02	01
2015-16	01	01
2014-15	02	02

- * a) Publication per faculty
 - * Number of papers published in peer reviewed journals (National/International by faculty and students)
 - * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil
 - * Monographs: Nil
 - * Chapter in Books: Nil
 - * Books Edited: Nil
 - * Books with ISBN/ISSN numbers with details of publishers: 1 (ISBN-13: 978-0-19-945615-4, Oxford University Press)
20. Areas of consultancy and income generated : Nil
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards

Sl. No.	Name of Faculty	Organization
1	Mr. Samiran Maity	Institution of Engineers/ Institution of valuers

22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme: 100%
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research: 0%
23. Awards / Recognitions received by faculty and students:
 “Life Time Satisfaction Guarantee” privilege won by the book Boiler Operation Engineering authored by Mr. Parthasarathi Chattopadhyay from McGraw-Hill, USA.

24. List of eminent academicians and scientists / visitors to the department:

Sl. No.	Name of the Person	Designation	Institute / Organisation
1	Mr. Saranath Bhaduri	Vice President- Manufacturing	Ceratizit India Pvt. Ltd.
2	Mr. Shyam Sundar Mukhopadhyay	Executive Director, Engineering	EMT Megatherm Pvt. Ltd.
3	Mr. Partha Mukherjee	Manager-Works	Ellenbarrie Industrial Gases Ltd.
4	Mr. Amrito Kr. Ghosh	Sr. Factory Manager	Sintex Industries Limited
5	Mr. Sunil Jagwani	Director	Jagwani Projects Pvt. Ltd.

25. Seminars/ Conferences/Workshops organized & the source of funding a) National b) International

Sl. No.	Name of Seminar/ Workshop	Conducted by	Co-Ordinator	Date
1	Overview of Thermal Power Plant	WBPDC, Kolaghat	Mr. Samiran Maity	7 th Feb 2015
2	NON Destructive Testing	Institute of Non Destructive Testing	Mr. Samiran Maity	23 rd Sep 2015
3	3-D design and printing	Srijan Creation	Mr. Samiran Maity	4 th May 2016
4	Overview of Industrial Design & Carbide Cutting Tools	Ceratizit and Megatherm	Mr. Samiran Maity	1 st -2 nd Sep, 2016
5	Overview of Solidworks	CADD Centre, New Alipore	Mr. Samiran Maity	15 th Mar, 2017

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Tech (ME) 2015-2016	22	20	20	0	Yet to pass
B.Tech (ME) 2014-2015	25	25	25	0	Yet to pass
B.Tech (ME) 2013-2014	43	43	42	1	100
B.Tech (ME) 2012-2013	52	52	52	0	100

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Tech (ME) 2015-2016	90	10	0
B.Tech (ME) 2014-2015	92	08	0
B.Tech (ME) 2013-2014	90.69	9.31	0
B.Tech (ME) 2012-2013	92.30	7.70	0
B.Tech (ME) 2011-2012	93.87	6.13	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

Name	Competitive Examination	Year of Passing
Sk. Sharuk Mohammad	GATE	2017
Pulak Naskar	GATE	2015
Kamal Gharami	GATE	2015
Arnab Singha Roy	Defense Service	2015

29. Student progression

Student progression	Against % enrolled
UG to PG	2
PG to M.Phil.	0
PG to Ph.D.	0
Ph.D. to Post-Doctoral	0
Employed	
• Campus selection	64
• Other than campus recruitment	07
Entrepreneurship/Self-employment	0

30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	2460
2	No of titles in central library	332
3	No of Journals in central library	06
4	No of pdf books in central library	39

b) Internet facilities for Staff & Students: 1) Common computer centre is available with 60 PCs.

2) All systems are connected to LAN.

3) Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility : Seminar room has LCD projector

d) Laboratories:

1) IC Engine Lab

- i) Cut Section Model of 4 Stroke Diesel Engine
- ii) Cut Section Model of Catalytic Converter
- iii) 4 stroke single cylinder Diesel Engine
- iv) 4 Stroke multi cylinder Petrol Engine
- v) 4 Stroke Multi cylinder Petrol Engine with MPFI System.
- vi) Bomb Calorimeter

2) Fluid Mechanics and Hydraulics Lab

- i) Open Channel with Notch
- ii) Major loss
- iii) Bernoulli's Theorem Verification
- iv) Orifice meter & Venturimeter
- v) Pitot Tube
- vi) Pelton Wheel Turbine
- vii) Francis Turbine
- viii) Centrifugal Pump
- ix) Reynold's Apparatus
- x) Metacentric Height of ship Model
- xi) Centrifugal Blower

3) Manufacturing Technology Lab

i) Foundry Shop

- a) Aluminium melting electric Furnace.
- b) Universal sand testing machine.
- c) Clay Washer.
- d) Grain Fineness testing machine.
- e) Moisture Tester.
- f) Permeability Meter.
- g) Sand Rammer with Core Block.

-
- h) Mould Hardness Tester.
 - ii) Welding Shop (MIG Welding, SMAW and Spot Welding).
 - iii) Forging Shop.
- 4) Material Testing Lab
- Impact Testing Machine(Izod & Charpy)
- i) Dry Penetration Test
 - ii) Magnetic Flux Test
 - iii) Crystallographic Structure
 - iv) Surface Preparation & Etching of Surface
 - v) Heat Treatment of Steel
- 5) Machining and Machine Tools Lab
- i) Lathe – 6 nos.
 - ii) Milling machine- 01 no.
 - iii) Drilling machine-02 nos.
 - iv) Shaper machine-01 no.
 - v) Power Saw – 01 no.
 - vi) Bench Grinder machine – 01 no.
 - vii) Lathe Tool Dynamometer
 - viii) Drill Tool Dynamometer
 - ix) Tool Makers Microscope
 - x) Surface Roughness Tester
- 6) Dynamics of Machines Lab
- i) Gyroscope
 - ii) Universal Governor
 - iii) Static & Dynamic balancing
 - iv) Cam Analysis
 - v) Vibration Apparatus
 - vi) Different Kinds of Mechanism
- 7) Refrigeration and Air Conditioning Lab
- i) Refrigeration Test Rig.
 - ii) Performance Test on Air Conditioning Test Rig.
 - iii) Window Type Air Conditioning Test Rig.
- 8) CAD Lab
- 9) Applied Thermodynamics & Heat Transfer Lab
- i) Thermal Conductivity of Metal Rod
 - ii) Heat Exchanger
 - iii) Separating & Throttling calorimeter
 - iv) Pin Fin
 - v) Thermal Conductivity of Insulating Powder
 - vi) Emissivity
- 10) Applied Mechanics Lab
- i) Rockwell Hardness Testing m/c
 - ii) Fatigue Testing m/c
 - iii) Impact Testing m/c
 - iv) Torsion Testing m/c
 - v) Tensile Testing m/c
 - vi) Spring Stiffness Testing m/c
 - vii) Friction Testing m/c
 - viii) Strain Gauge
- 11) Applied Fluid Mechanics Lab
- i) Stoke's law verification
 - ii) Minor Loss

- iii) Cavitation Phenomenon
 - iv) Pump in Series and Parallel
 - v) Hydraulic Jump
 - vi) Submerged Jet
- 12) Metrology & Measurement Lab
- i) Vernier height & depth gauge.
 - ii) Micro-meter.
 - iii) Feeler gauge.
 - iv) Thread gauges
 - v) Slip gauge.
 - vi) Vernier bevel protractor.
 - vii) Angle gauges.
 - viii) Sine-bar.
 - ix) Dial indicator.
 - x) Talysurf instrument.
 - xi) Profile projector.
 - xii) Thermocouple.
 - xiii) Anemometer & Air Blower.
 - xiv) Granite Surface Plate.
- 13) Advanced Manufacturing Technology Lab
- i) CNC Turning Machine.
- 14) Workshop
- i) Pattern.
 - ii) Fitting.
 - iii) Sheet Metal

31. Number of students receiving financial assistance from college, university, government or other agencies

Sl. No	Name of agency	Number of student benefitted
1	Govt. of West Bengal	18
2	College	07
3	West Bengal Minorities development Commission	05

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Sl. No	Date	Name of the Programme	Resource Person	Name of the Participants	No of Experiments
1	7 th Feb 2015	Overview of Thermal Power Plant	Shri Sudipta Pal	All Students of ME	NA
2	23 rd Sep 2015	NON Destructive Testing	Mr. B. N. Dhan	All Students of ME	NA
3	4 th May 2016	3-D design and printing	Mr. Samit Das	All Students of ME	1
4.	1 st -2 nd Sep, 2016	Overview of Industrial Design & Carbide Cutting Tools	Mr. Saranath Bhaduri Mr. Shyam Sundar Mukhopadhyay	All Students of ME	NA
5	15 th Mar, 2017	Overview of Solidworks	Mr. Dhiman Acharya	All Students of ME	1

33. Teaching methods adopted to improve student learning:
- i. Class room lectures
 - ii. PPT
 - iii. Video Lectures

iv. Assignment

v. Tutorial

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :
Woman and Hygiene awareness, Child Literacy

35. SWOC analysis of the department and Future plans

Strength
<ul style="list-style-type: none">➤ Dedicated Faculty➤ Well-equipped laboratories manned by technicians with professional skills and expertise➤ Students are very inquisitive and keen to learn beyond course curriculum➤ Faculty supports extended to the students for taking up exam like: GATE.
Weakness
<ul style="list-style-type: none">➤ Students need to be a little bit proficient in technical English.➤ Students should be more aware of the importance of quality learning in the context of career development in this age of cutting-edge technology
Opportunity
<ul style="list-style-type: none">➤ More extensive industry-academic interface is required to lay the building block of gaining practical expertise to derive maximum advantage
Challenge
<ul style="list-style-type: none">➤ To upgrade the quality of students, mold them into technically sound individual to achieve the highest goal in their professional life

Department of Mathematics

1. Name of the Department : Mathematics
2. Year of Establishment : 2010
3. Names of Programmes / : Nil
Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)
4. Names of Interdisciplinary courses and the departments/units involved:
The course Numerical Methods Lab (MCS 391 & MCS 491) in the curriculum for B.Tech (CE, CSE, ECE, ME) is jointly taken by the Department of Mathematics and Department of Computer Science.
5. Annual/semester/ : Semester System
Choice based credit system (programme wise)
6. Participation of the department in the courses offered by other departments :

Sl. No.	Course Name	Department
1	Mathematics-I	CE,CSE,ECE,ME
2	Mathematics-II	CE,CSE,ECE,ME
3	Numerical Methods	CE,CSE,ECE,ME
4	Numerical MethodsLab	CE,CSE,ECE,ME
5	Mathematics-III	CE, ECE,ME
6	Mathematics-3	CSE
7	Discrete Mathematics	CSE
8	Operations Research	CE,CSE, ME
9	Mathematics-1	ARCH
10	Mathematics-2	ARCH

7. Courses in collaboration with : Nil
Other universities, industries, Foreign institutions, etc.
8. Details of courses/programmes Discontinued (if any) with reasons : Nil
9. Number of Teaching posts :

Position	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors	03	03

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided
Prof. Prosenjit Sen	M.Sc., Ph.D.	Assistant Professor & TIC	Mathematical Ecology & Epidemiology	10 Years	Nil
Prof. Debojyoti Lahari	M.Sc.	Assistant Professor	Mathematical Biology	4 Years	Nil
Prof. Anoar Ali Molla	M.Sc.	Assistant Professor	Cosmology & Astrophysics	1 Month	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered : Nil
And practical classes handled (programme-wise) by temporary faculty
13. Student-Teacher Ratio (programme wise) : 20:1
14. Number of academic support staff(technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	00	00
Administrative Staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.
M Sc -02
Ph.D. - 01
16. Number of faculty with on going : Nil
(projects from
a) National
b) International funding agencies and grants received
17. Departmental projects funded by: Nil
DST-FIST;UGC, DBT, ICSSR, etc. under MHRD Programme Govt. of India and total grants received INDIA.
18. Research Centre/facility : Nil
Recognized by the University
19. Number of publications listed in International Database
(For Eg: Web of Science, Scopus, Humanities International Complete,
Dare Database-International Social Sciences Directory, EBSCO host, etc.)

AY	No of papers	No of faculty
2016-17	02	01
2015-16	01	01

- Monographs : 08 Course Files

Subject Code	Subject Name
M101	Mathematics-I
M201	Mathematics-II
M302	Mathematics-III
M402	Mathematics-III
ARCH201	Mathematics-I
MCS301	Numerical Methods
MCS401	Numerical Methods
ARCH102	Mathematics-II

- Chapter in Books : Nil
 - Books Edited : Nil
20. Areas of consultancy and Income generated : Nil
21. Faculty as members in
g) National committees : Nil
h) International Committees : Nil
i) Editorial Boards : Nil
22. Student projects
a) Percentage of students who have done in-house projects : NA
b) Percentage of students placed for : NA
projects in organizations outside institutions
23. Awards/Recognitions received by faculty and students

Faculty awards/rewards

Sl. No.	Faculty Name	Event Participated	Award Won/ Paper Presented
1	Prof. Suprakash Maity	N.P.T.E.L. Programme	Certificate of appreciation by IIT, KGP in 2013.
2	Prof. Prosenjit Sen	Advanced Workshop on Mathematical Epidemiology and Differential Equations	Certificate of appreciation by IIT, Patna in 2013.

3	Prof. Prosenjit Sen	Workshop on Stability & Bifurcation Analysis and Pattern Formation in Mathematical Ecology and Epidemiology	Certificate of appreciation by IIT, Kanpur in 2011.
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24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name of the Person	Designation	Institute / Organization
1	Dr. Guruprasad Samanta	Professor	Department of Mathematics, IEST, Shibpur
2	Dr. Alakes Maiti	Assistant Professor	Department of Mathematics, Vidyasagar Evening College, Kolkata
3	Dr. Tapan Kumar Roy	Professor	Department of Mathematics, IEST, Shibpur

25. Seminars/Conferences/Workshops organized & the source of funding

- a) National : Nil
 b) International : Nil
 c) College/society : 3 Seminars & 4 Special lecturers

26. Students profile programme/course wise: NA. Supporting Department

27. Diversity of Students: NA. Supporting Department

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? N.A.

29. Student progression : NA. Supporting Department.

30. Details of Infrastructural facilities

- a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	754
2	No of titles in central library	121
3	No of pdf books in central library	15

- b) Internet facilities for Staff & Students : Yes
 1) Common computer centre is available with 60 PCs
 2) All systems are connected to LAN.
 3) Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility : Seminar room has LCD projector

- d) Laboratories : Use Numerical Lab of CSE.

31. Number of students receiving financial Assistance from college, university, Government or other agencies. : NA. Supporting Department

32. Details on student enrichment programmes (special lectures/workshops/Seminars)

- a) Special Lectures

Sl. No.	Name of the Person	Title	Date
1	Dr. Tapan Kumar Roy, Professor, IEST, Shibpur	Introduction to Fuzzy Logic.	10.07.15
2	Dr. Guruprasad Samanta, Professor, IEST, Shibpur	Derivatives and its interpretation.	07.02.17
3	Dr. Alakes Maiti, Assistant Professor, Vidyasagar Evening College, Kolkata	The Calculus	10.02.17
4	Dr. Alakes Maiti, Assistant Professor, Vidyasagar Evening College, Kolkata	An Introduction to the Qualitative Theory of Differential Equations	27.07.17

b) Seminar

Sl. No	Title	Dates Conducted	Organized by	No. of Students Attended
1	Mathematical contest	22.09.11	Mathematics Department and T.I.M.E.	75
2	Wizard of Maths	19.09.12	Mathematics Department and Vista Mind	90
3	Wizard of Maths	29.09.13	Mathematics Department and Vista Mind	110

33. Teaching methods adopted to improve student learning:
1. Lectures & Tutorials
 2. Use of Mathematical Models
 3. Power Point presentation
34. Participation in Institutional Social Responsibility (ISR) and Extension activities :
 Woman and Hygiene awareness, Child Literacy
35. SWOC analysis of the department and Future plans

Strengths

1	100% students passed consistently for the last 4years
2	Well qualified and committed faculty members.

Weakness

1	Some students are not proficient in mathematical skill
2	Lack of collaboration in national and international level.

Opportunities

1	Collaboration in research work with other departments of the institute.
2	Utilization of labs for R&D

Challenges

1	To get more financial Support from CSIR, DST, NBHM for conducting Conferences and Workshops periodically.
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Future Plans

1	The research interests of the members of the faculty of the department are diverse and representative of several areas of pure and applied mathematics.
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Department of Physics

1. Name of the Department : Physics
2. Year of Establishment : 2010
3. Names of Programmes / : Nil
Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)
4. Names of Interdisciplinary courses and the departments/units involved: NA
5. Annual/semester/ : Semester System
Choice based credit system (programme wise)
6. Participation of the department in the courses offered by other departments :

Sl. No.	Course Name	Department
1	Physics-I	CSE,ECE, CE, ME
2	Physics-II	ECE,CSE, CE, ME
3	Physics Practical-I	ECE,CSE,ME,CE
4	Physics Practical-II	ECE,CSE,ME,CE

7. Courses in collaboration with : Nil
Other universities, industries, Foreign institutions, etc.
8. Details of courses/programmes : Nil
Discontinued (if any) with reasons
9. Number of Teaching posts :

Position	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors	01	01

10. Faculty profile with name, qualification, designation, specialization,(D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
Prof. Pranab Biswas	M.Sc., M.Tech	Assistant Professor & TIC	Electronics	7.5 Years	Nil
Prof. Arghya Dey	M.Sc.	Assistant Professor	Astro Physics	7 Years	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled : Nil
(programme-wise) by temporary faculty
13. Student-Teacher Ratio (programme wise) : 1:20
14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	00	00
Administrative Staff	02	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.
M TECH -01, M.Sc.-01
16. Number of faculty with on going : Nil
(projects from a)National
b) International funding agencies and grants received
17. Departmental projects funded by: Nil
DST-FIST; UGC, DBT, ICSSR, etc. under MHRD Programme Govt. of India and total grants received INDIA.
18. Research Centre/facility : Nil
Recognized by the University
19. Number of publications listed in International Database
(For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

AY	No of papers	No of faculty
2016-17	02	01
2015-16	Nil.	Nil.
2014-15	Nil.	Nil.
2013-14	Nil.	Nil.

- Monographs : Nil
 - Chapter in Books : Nil
 - Books Edited : Nil
20. Areas of consultancy and Income generated : Nil
21. Faculty as members in
- j) National committees : Nil
- k) International Committees : Nil
- l) Editorial Boards : Nil
22. Student projects
- a)Percentage of students who have done in-house projects : NA
- b) Percentage of students placed for : NA
projects in organizations outside institutions
23. Awards/Recognitions received by faculty and students : Nil
24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name of the Person	Designation	Institute / Organisation
1	Prof. Dipak Ghosh	Emeritus Professor, Dept. of Physics	Jadavpur University
2	Prof. Mridul Bose	Professor, Dept. of Physics	Jadavpur University

25. Seminars/Conferences/Workshops organized & the source of funding
- a) National : Nil
- b) International : Nil
- c) college/society : One
26. Students profile programme/course wise : NA. Supporting Department
27. Diversity of Students: NA. Supporting Department
28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? N.A.
29. Student progression : NA. Supporting Department
30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	418
2	No of titles in central library	61

b) Internet facilities for Staff & Students : Yes

- 1) Common computer centre is available with 60 PCs.
- 2) All systems are connected to LAN.
- 3) Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility : Some classrooms have LCD projector

d) Laboratories:

i) Physics-I Laboratory(For conducting experiments on G.P.M,Electricity,Viscosity,Thermal Conductivity)

ii) Physics –II Laboratory (For conducting experiments on Electrostatics,Quantum Physics,Magnetostatics)

iii) Dark Room(For conducting experiments on Optical Physics,Atomic Physics)

31.Number of students receiving financial Assistance from college, university, Government or other agencies. : NA. Supporting Department

32.Details on student enrichment programmes:
(special lectures/workshops/Seminars)

Workshop

Sl. No	Title	Dates Conducted	Resource Person	No. of Students Attended
1.	Entrepreneurship Awareness Camp (EAC-2014)	20 th -22 nd March,2014	Dr. Manas Kr. Sanyal (HRM,IEST,SHIBPUR) Mr.Amiya Kr. Kalidaha(Senior Scientific Officer,DST,WB) Mr. Barun Sarkar(Business Manager,NIRJAFT)	70
2.	"Idea, Creativity, Innovation through Motivation – A Must approach towards Students' Success & Development".	12.09.2014	Mr.Amiya Kr. Kalidaha (Senior Scientific Officer,DST,WB)	50

Seminar

Sl. No	Title	Dates Conducted	Resource Person	No. of Faculty Attended
1	Recent Trends in Science	20 th December,2015	Prof. Dipak Ghosh (Emiratus Prof., J.U.)	12

33. Teaching methods adopted to improve student learning:

- i) More Experiment based learning
- ii) PPT presentation on certain topics
- iii) Regular assessment by arranging class test
- iv) Simple project work given .

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
Woman and Hygiene awareness & Child Literacy

35. SWOC analysis of the department and Future plans

Strengths

1	A continuous and scientific approach is adapted to make students spontaneously learn the course.
2	Emphasis are given on learning so that students not only get good mark but also know the paper.

Weakness

1	Less meritorious students need to be involved more in simple project works.
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Opportunities

1	Utilization of laboratories for setting up more experiments outside syllabus.
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Challenges

1	To be upgraded with recent innovative teaching methodologies to make the learning process easier and more interesting.
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Future Plans

1.	To arrange funding /research grants from various government body.
2.	To establish a R & D part in the department to make the learning process simpler and to develop individual research expertise.
3.	To develop collaboration with other research Institutes and Universities.

Department of Chemistry

1. Name of the department : Chemistry
2. Year of Establishment : 2010
3. Names of Programmes / : Nil
Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)
4. Names of Interdisciplinary courses and the departments/units involved: Nil
5. Annual/semester/ : Semester System
Choice based credit system (programme wise)
6. Participation of the department in the courses offered by other departments :

Sl. No.	Course Name	Department
1	Chemistry I	ECE, CE, ME, CSE
2	Basic Environmental Engineering & Elementary Biology	ECE, CE, ME, CSE
3	Chemistry Lab	ECE, CE, ME, CSE

7. Courses in collaboration with : Nil
Other universities, industries, Foreign institutions, etc.
8. Details of courses/programmes : Nil
Discontinued (if any) with reasons
9. Number of teaching posts :

Position	Sanctioned	Filled
Asst. Professors	02	02

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4years
Prof. Sukanya Das Chandra	M.Sc, PhD (SLET Qualified)	Assistant Professor & TIC	Chemistry	11.5 Years	Nil
Prof. Sangita Mete	M.Sc	Assistant Professor	Chemistry	5 Years	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered : Nil
And practical classes handled by (programme-wise) by temporary faculty
13. Student-Teacher Ratio (programme wise) : 1:20
14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	01	01
Administrative Staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.
M.Sc -01, Ph.D. - 01
16. Number of faculty with on going (projects from
a) National : Nil
b) International funding agencies and grants received
17. Departmental projects funded by: Nil
DST-FIST; UGC, DBT, ICSSR, etc. under MHRD Programme Govt. of India and total grants received INDIA.
18. Research Centre/facility : NIL
Recognized by the University

- 19. Number of publications listed in International Database
(For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

AY	No of papers	No of faculty
2015-16	02	01
2014-15	01	01

- Monographs : Nil
 - Chapter in Books : Nil
 - Books Edited : Nil
20. Areas of consultancy and Income generated : Nil
21. Faculty as members in
- a) National committees : Nil
- b) International Committees : Nil
- c) Editorial Boards : Nil
22. Student projects
- a) Percentage of students who have done in-house projects : NA
- b) Percentage of students placed for projects in organizations outside institutions : NA
- 23.

Faculty awards/rewards

Sl. No.	Faculty Name	Event Participated	Award Won/ Paper Presented
1	Prof. Sukanya Das Chandra	Communicated Research Papers	Papers accepted and published in International, SCI journals
		TEQIP-II, DST & CSIR sponsored National Conference on 'Recent Developments in Chemistry-2013, (RDC-2013)', Department of Chemistry, National Institute of Technology, Durgapur.	Certificate of participation

24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name of the Person	Designation	Institute / Organisation
1	Prof. Tarasankar Pal	Professor	IIT, Kharagpur
2	Prof. Rina Ghosh	Professor	Jadavpur University

25. Seminars/Conferences/Workshops organized & the source of funding

- a) National : Nil
- b) International : Nil
- c) college/society : Nil

26. Students profile programme/course wise: NA

27. Diversity of Students : NA

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA

29. Student progression : NA

30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	297
2	No of titles in central library	37
3	No of pdf books in central library	13

b) Internet facilities for Staff & Students : Yes

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- 1) Common computer centre is available with 60 PCs.
 - 2) All systems are connected to LAN.
 - 3) Airtel and Aircel-33 Mbps
 - c) Class rooms with ICT facility : Seminar room has LCD projector
 - d) Laboratories : Chemistry Lab
 31. Number of students receiving financial Assistance from college, university, Government or other agencies :NA
 32. Details on student enrichment programmes (special lectures/workshops/Seminars) :Nil
 33. Teaching methods adopted to improve student learning:
 4. LCD Projector
 5. Hands on experiments done to correlate theory practically.
 34. Participation in Institutional Social Responsibility (ISR) and Extension activities : Woman and Hygiene awareness, Child Literacy
 35. SWOC analysis of the department and Future plans

Strengths

1)	Qualified and experienced faculty members who are motivated and are devoted for welfare of the students.
2)	Well equipped laboratories for B. Tech. programme.

Weakness

1)	More rural students with poor communication skills.
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Opportunities

1)	Innovative approach to teaching-learning process so as to make it more effective.
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Challenges

1)	The number and quality of the student at entry level.
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Future Plans

1)	To promote departmental research.
2)	To organize international conferences, seminars and workshops to disseminate in the field of emerging trends in Chemistry.

Department of Humanities

1. Name of the department : Humanities
2. Year of Establishment : 2010
3. Names of Programmes / : Nil
4. Names of Interdisciplinary courses and the departments/units involved : Nil
5. Annual/semester/ : Semester System
Choice based credit system
(programme wise)
6. Participation of the department in the courses offered by other departments :

Sl. No.	Paper Name	Department
1	English Language and Technical Communication	ECE, CE, ME, CSE
2	Communicative English	BArch
3	English Language Lab Practice	ECE, CE, ME, CSE
4	Values and Ethics in Profession	ECE, CE, ME, CSE
5	Language Lab and Technical Report Writing	ECE, CE, ME, CSE
6	Economics for Engineers	ECE, CE, ME, CSE
7	Principles and Practices of Management	ECE, CE, ME, CSE
8	Human Resource Management	CE, CSE
9	Organizational Behaviour	ECE, CE, CSE
10	Production and Operations Management	ME
11	Building Economics and Construction Management	BArch

7. Courses in collaboration with : Nil
Other universities, industries, Foreign institutions, etc.
8. Details of courses/programmes : Nil
Discontinued (if any) with reasons
9. Number of Teaching posts : 06

Position	Sanctioned	Filled
Professors	0	0
Associate Professors	0	0
Asst. Professors	06	06

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4years
Prof. Monita Mitra	M. A. M. Phil. B. Ed. PGDM, PGDTE	Assistant Professor & TIC	ELT and Management	22 years	Nil
Prof. Pradipta Biswas	M. Com., MBA	Assistant Professor	Insurance and Management	5 years	Nil
Prof. Sharanya Ghosh	M. A.	Assistant Professor	Literature	7 years	Nil
Prof. Sudeshna Seal	MBA	Assistant Professor	Human Resource	15 Years	Nil
Prof. Sumantra Basak	MBA	Assistant Professor	Marketing	5 Years	Nil
Prof. Bhaskar Mukherjee	MA	Assistant Professor	English	22 Years	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered : 0.2

- And practical classes handled(programme-wise) by temporary faculty
13. Student-Teacher Ratio (programme wise) : 1:20
14. Number of academic support staff (technical) and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	00	00
Administrative Staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG. : MA-03, M Phil- 01
M.Com- 01,MBA- 03
16. Number of faculty with on going : Nil
(projects from a)National
b) International funding agencies
and grants received
17. Departmental projects funded by : Nil
DST-FIST;UGC, DBT, ICSSR, etc.under MHRD Programme Govt. of
India and total grants received in INDIA.
18. Research Centre/facility : Nil
Recognized by the University
19. Publications:

AY	No of papers	No of faculty
2016-17	1	1
2015-16	Nil	Nil
2014-15	Nil	Nil
2013-14	3	1

- Number of publications listed in International Database
(For Eg: Web of Science, Scopus, Humanities International Complete,
Dare Database-International Social Sciences Directory, EBSCO host, etc.)
- Monographs : Nil
- Chapter in Books : Nil
- Books Edited : Nil
20. Areas of consultancy and Income generated : Nil
21. Faculty as members in
National committees : 01
International Committees : Nil
Editorial Boards : Nil
22. Student projects:
a) Percentage of students who have
done in-house projects : NA
b) Percentage of students placed for
projects in organizations outside institutions : NA

23. Awards/Recognitions received by faculty and students :

Faculty awards/rewards

Sl. No.	Faculty Name	Event Participated	Award Won/ Paper Presented
1	Prof. Monita Mitra	Indian National Science Congress-held at Kolkata,2013	Paper entitled, 'Mental Health of Indian Women'
2	Prof. Monita Mitra	UGC-DEB-Sponsored National Seminar Proceeding on "Teaching Social Science Disciplines Through ODL: A 21st Century Perspective" held on 03 rd . March, 2017 organized by WBNSOU, Salt Lake.	Paper entitled 'Developing Learner Autonomy& Enhancing Teaching Learning Process Through ICT in Distance Education' .
3	Prof. Monita Mitra	Burdwan University, 2013	Paper entitled, 'Woman and the Family-Critical study of the Select Novels of Anita Desai''
4	Prof. Monita Mitra	Burdwan University, 2012	Paper entitled, 'Rights and Issues of the Dalit Woman.
5	Prof. Sharanya Ghosh	UGC State Level Seminar organized by Mirzapur City College and Rammohan College, Kolkata	Paper entitled 'Mind the Gap: Improvising a Neo- Narrative and Teaching Medium for the eGeneration Learners' published as post- proceedings in Beyond the Zoned Space: Teaching and Learning English in the Digital Era (ISBN)
6	Prof. Sharanya Ghosh	International Seminar organized by REVA University, Bangalore	Paper entitled 'Through the Magnifying Glass: Deciphering the Shifting Identities in Adaptations of Popular Detective Fictions' was presented and to be published shortly

24. List of eminent academicians and scientists/visitors to the department: Nil

25. Seminars/Conferences/Workshops organized & the source of funding

- a) National : Nil
- b) International : Nil
- c) college/society : Nil

26. Students profile programme/course wise: NA. Supporting Department

27. Diversity of Students: NA. Supporting Department

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? N.A.

29. Student progression : NA. Supporting Department.

30. Details of Infrastructural facilities

a) Library : Central Library

Sl. No.	Subject	Quantity
1	No of books in central library	637
2	No of titles in central library	118
3	No of pdf books in central library	10

b) Internet facilities for Staff & Students : Airtel and Aircel-33 Mbps

c) Class rooms with ICT facility : Seminar room has LCD projector

d) Laboratories : Language Lab

31. Number of students receiving financial Assistance from college, university, Government or other agencies. : NA. Supporting Department

32. Details on student enrichment programmes (special lectures/workshops/Seminars): Nil

33. Teaching methods adopted to improve student learning:
 - a) LCD Projector
 - b) Seminar
 - c) NPTEL video
34. Participation in Institutional Social Responsibility (ISR) and Extension activities : Woman and Hygiene awareness, Child Literacy
35. SWOC analysis of the department and Future plans

Strengths

1	Highly experienced and trained faculty members to help students inculcate life skills, develop competencies in LSRW, grooming, developing personality, stress management, developing self esteem and confidence, time and stress management. Preparing students for On/Off and Pool Campus Interviews and appear for Competitive National and International Level Exams. Preparing students for giving Presentations and Handling PIs.
2	Well equipped language lab with advanced ORELL software to train the students in LSRW skills and develop core competencies. A well equipped Seminar Room for Presentations. A positive ambience to develop creativity and innovativeness and explore new options.
3	A well equipped Library with national and international books, journals, e-resources.

Weakness

1	Lack of scope for syllabus innovation/ upgradation
2	Lack of motivation among engineering students, low attendance in GD classes and Student Development classes, reluctance of students to speak in English; Students coming from rural background.
3	Inherent dislike and motivation to study Humanities subjects.
4	Inability of students to face the competitive scenario of employment.

Opportunities

1	Availability of open resources and opportunities for research work.
2	Avenues for becoming entrepreneurs, acquiring skills to become employable, appear for national/international level competitive exams, going for higher studies.
3	Availability of options for choosing alternative Management career options.

Challenges

1	Changing the fixed mindset amongst engineering students about Humanities subjects. Finding innovative ways to motivate/encourage and bring students to the Humanities class.
2	Bringing about a change in the attitudes of students towards learning Management subjects.
3	Bringing about fluency in English communication amongst the vernacular students and getting rid of their inhibitions; Changing the medium of communication to English among student groups.

Future Plans

1	Inviting Speakers from different areas relating to Humanities and conducting Seminars and Workshops.
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Department of Architecture

1. Name of the department : Architecture
2. Year of Establishment : 2012
3. Name of Programmes : B. Arch (5 years)
4. Names of Interdisciplinary courses and the departments/units involved

Sl. No.	Course Name	Department Involved
1	Engineering Mechanics	Civil Engineering
2	Strength of material	Civil Engineering
3	Structure - I	Civil Engineering
4	Structure - II	Civil Engineering
5	Structure - I II	Civil Engineering
6	Structure - IV	Civil Engineering
7	Computer Education	Computer Science & Engineering
8	Survey	Civil Engineering
9	Material Laboratory	Civil Engineering
10	Workshop - I	Mechanical Engineering
11	Workshop - II	Mechanical Engineering

5. Annual / semester / Choice based credit system: Semester System
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other universities/ industries, foreign institutions, etc.: Nil
8. Details of courses/ programmes Discontinued (if any) with reasons: Nil
9. Number of teaching posts :

Position	Sanctioned	Filled
Professors	04	04
Associate Professors	07	07
Asst. Professors	14	14

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M.Phil.etc.,)

Sl. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
1	Prof. Kalyan Kumar Mukherjee	M.Arch	Professor & HOD	Housing	35 yrs.	Nil
2	Prof. Bhaskar Chatterjee	M.Arch	Professor	Housing	34 yrs.	Nil
3	Prof. Jyotirmay Adhya	M.Arch	Professor	Town & Regional Planning	44 yrs.	Nil
4	Prof. Harpal Singh	M.Arch	Professor	Regional Planning	42 yrs.	Nil
5	Prof. Suranjana Chaudhuri	M.Arch	Associate Professor	Urban & Regional Planning	9 yrs.	Nil
6	Prof. Kaustabh Das	M.Arch	Associate Professor	Urban Design	11 yrs.	Nil
7	Prof. Debjani Mitra	M.Arch	Associate Professor	Urban design	32 yrs.	Nil
8	Prof. Sumanta Deb	M.Arch	Associate Professor	Architecture	8 yrs,	Nil
9	Prof. Prottyush Lala	M.Arch	Associate Professor	Architecture	10 yrs.	Nil

10	Prof. Sumit Bose	M.Arch	Associate Professor	Urban Design	22 yrs.	Nil
11	Prof. Suparna Biswas	M.Arch	Associate Professor	Housing	15 yrs.	Nil
12	Prof. Kalyan Chakraborty	B.Arch	Assistant Professor	Architecture	18 yrs.	Nil
13	Prof. Atasi Chatterjee	B.Arch	Assistant Professor	Architecture	32 yrs.	Nil
14	Prof. Milan Bandyopadhyay	B.Arch	Assistant Professor	Architecture	18 yrs.	Nil
15	Prof. Santanu Sen	B.Arch	Assistant Professor	Architecture	25 yrs.	Nil
16	Prof. Samit Biswas	B.Arch	Assistant Professor	Architecture	25 yrs.	Nil
17	Prof. Prasenjit Karmakar	M.Arch	Assistant Professor	Urban design	1 yr.	Nil
18	Prof. Abhiroop Das	M.Arch	Assistant Professor	Urban Design	9 yrs	Nil
19	Prof. Arnab Jana	M.Arch	Assistant Professor	Urban Design	6 yrs.	Nil
20	Prof. Biswajit Chakraborty	M.Arch	Assistant Professor	Urban Planning	8 yrs.	Nil
21	Prof. Sandipan Sinha	M.Arch	Assistant Professor	Advance Construction Management	3 yrs.	Nil
22	Prof. Madhuchhanda Mandal Biswas	M.Arch	Assistant Professor	Town & Reg. Planning	6yrs.	Nil
23	Prof. Meghla Nath	M.Arch	Assistant Professor	Town & Country Planning	6 yrs.	Nil
24	Prof. Janani Ranganathan	M.Arch	Assistant Professor	Urban Design	2 yrs.	Nil
25	Prof. Sankha Subhra Gangopadhyay	B.Arch	Assistant Professor	Architecture	28 yrs.	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled by temporary faculty: Nil
13. Student - Teacher Ratio (programme wise) : B.Arch 1 : 16
14. Number of academic support staff and administrative staff sanctioned and filled

Position	Sanctioned	Filled
Technical Staff	02	02
Administrative Staff	07	07

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG : All Post Graduation Qualified, 5 pursuing PhD.
16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. under MHRD program. Govt.of India, and total grants received: Nil
18. Research Centre / facility recognized by the University: Nil

19. Publications:

Sl. No	Year	No. of Faculty Journals/Publications
1	2012-13	5
2	2013-14	9
3	2014-15	11
4	2015-16	13

* Publication per faculty: Faculty – 24 : Publications -1.75

* Number of papers published in peer reviewed journals (national/ international) by faculty and students: 36

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host etc.): 4

* Monographs : Nil

* Chapter in Books : 2

* Books Edited : Nil

* Books with ISBN/ISS numbers with details of publishers : 4

* Citation Index : 2

* SNIP : Nil

* SJR : Nil

* Impact factor : 1

* h-index : Nil

20. Areas of consultancy and Income generated : We are in the process of formulating a Consultancy Cell.

21. Faculty as members in

a) National committees : 1 (Member of BOS, MAKAUT)

b) International Committees : Nil

c) Editorial Boards : 1

22. Student projects

a) Percentage of students who have done in-house projects including Interdepartmental / programme: 10

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: 10

23. Awards/ Recognitions received by faculty and students

a) Students:

Sl. No.	Name of the Student	Event	Organiser	Award	Year
1	Ashesh Das Subhajit Bagchi Md. Farhan	Students' Design Competition	IIT – Roorkee	1 st Prize	2013-14
2	Debojyoti Saha & Souvik Mallick	Students' Design Competition	INSTRUO – BESU	1 st Prize	2014-15
3	S. Abhishek & Shalini	Students' Design Competition	INSTRUO – BESU	3 rd Prize	2014-15
4	Souvick Chakraborty & Team	Students' Design Competition	ZONASA – NIT Rourkela	3 rd Prize	2015-16
5	Subhajit Bagchi & team	Design 30'	ZONASA – NIT Rourkela	Special Mention	2015-16
6	Subhajit Bagchi	NDTV – DAA Scholarship	Bengaluru		2015-16
7	Ashesh Das	Konstruk Design Awards	Kolkata	1 st Prize	2015-16

8	Subhajit Bagchi	ADI Awards (4th Year)	IIA- Kolkata	1 st Prize	2015-16
9	Soumyojit Bagchi	ADI Awards (2nd Year)	IIA- Kolkata	1 st Prize	2015-16
10	Students of architecture	Zonasa	Invertis University, Bareilly	4 th prize overall	2016- 2017

b) Faculty:

Sl. No.	Faculty Name	Event Participated	Certification
1	Prof. Arnab Jana	NIASA Faculty Induction Programme	Awarded in 2014-15
2	Prof. Bhaskar Chatterjee		
3	Prof. Abhiroop Das		
4	Prof. Abhiroop Das		
5	Prof. Biswajeet Chakraborty	Glass Academy Foundation	2015-16
6	Prof. Sandipan Sinha	NIASA Faculty Induction Programme	2015-16
7	Prof. Nakshtra Sen		
8	Prof. Madhuchanda Biswas	Sustainability sensitization workshop, NIASA, Pune.	2015-16
9	Prof. Suranjana Chaudhuri	Disaster mitigation in heritage zones, IIT, KGP	2015-16
10	Prof. Sumanta Deb	UGC Sponsored FDP on Built Environment and Sustainable Technologies	2016-17
11	Prof. Atasi Chatterjee	UGC Sponsored FDP on Built Environment and Sustainable Technologies	2016-17
12	Prof. Meghla Nath	UGC Sponsored FDP on Built Environment and Sustainable Technologies	2016-17
13	Prof. Janani Ranganathan	UGC Sponsored FDP on Built Environment and Sustainable Technologies	2016-17
14	Prof. Sandipan Sinha	International conference on Infrastructure and Real Estate, ICCRIP, organized in NICMAR, Pune	2016-17
15	Prof. Sumanta Deb	Best paper award at Research Scholar Colloquium, IEST, Shibpur	2016-17
16	Prof. Sandipan Sinha	A seminar on Green Rating System organized by IGBC.	2016-17
17	Prof. Kalyan K Mukherjee	Presented paper at Seminar titled "Urban Regeneration – A New perspective to Heritage Conservation" at MVP College, Nashik	2016-17

24. List of eminent academicians and scientists / visitors to the department

Sl. No.	Name of the Person	Designation	Institute / Organisation	Year
1	Prof. Cesear Taboada	Director	School of Art and Design, Barcelona	2013-14
2	Prof. Harimohan Pillai	Eminent Academician	Nil	2013-14
3	Prof. Anuradha Rathor	Director	Salient Design Studios, Kolkata	2014-15
4	Prof. Himadri Guha	Green Building specialist	Nil	2014-15
5	Prof. Mallika Bose	Associate Professor	Penn State University, USA.	2014-15
6	Prof. Sanghamitra Basu	Professor	IIT-KGP	2014-15
7	Prof. Keshav Gangadhar	Professor	McGans School of Architecture, Ooty.	2014-15
8	Prof. Tapas Bhattacharya	Professor	Jadavpur University	2015-16
9	Prof. Suvrendu Das	Design Head	Edifice, Kolkata	2015-16
10	Ar. Manish Chakraborty	Conservation Architect		2016-17

25. Seminars / Conferences / Workshops organized & the source of funding

a) National : 1

Sl. No.	Name of the Seminar / Event	Date	Year	Source of Funding
1	Reliving the Past – Documentation of Harish Mukherjee Road, Kolkata (1 day seminar)	02.07.16	2015-16	Self

b) International : 1

Sl. No.	Name of the Seminar / Event	Date	Year	Source of Funding
1	Architect of the Times (2 days seminar)	26.06.16 and 27.06.16	2014-15	Self

c) college/society : 9

Sl. No.	Name of the Seminar / Event	Year	Source of Funding
1	Design Expression	2013-14	Self
2	Design Fundamentals	2013-14	Self
3	Landscape	2014-15	Self
4	Green Building	2014-15	Self
5	Park Land Design	2014-15	Self
6	Heritage Management	2014-15	Self
7	Design Expression	2014-15	Self
8	Architectural Acoustics	2015-16	Self
9	Urban Design	2015-16	Self

26. Student profile programme / course wise:

Year	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012 -2013	31	31	16	15	Yet to Pass
2013-2014	63	63	30	33	Yet to Pass
2014-2015	61	61	28	33	Yet to Pass
2015-2016	78	76	21	55	Yet to Pass

*M=Male *F=Female

27. Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Arch 2015-16	96	4	0
B. Arch 2014-15	87	13	0
B. Arch 2013-14	95	5	0
B. Arch 2012-13	93	7	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : 3

29. Student progression: NA

30. Details of Infrastructural facilities

a) Library: YES

b) Internet facilities for Staff & Students: Airtel and Aircel-33 Mbps, All laboratories, Staff Room.

c) Class rooms with ICT facility: All Classrooms with LCD projectors

d) Laboratories: CAD Lab equipped with necessary software

31. Number of students receiving financial Assistance from college, university, Government or other agencies:

Year Financial Assistance Received from Government	No. of Students
2012-2013	4
2013 – 2014	4
2014 - 2015	2
2015 – 2016	2

32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts:

Workshops :

Sl No	Title	Dates Conducted	Resource Person	No. of Students Attended
1	Design Expression	20 Aug. 2013	Prof. Cesear Taboada	90
2	Design Fundamentals	22 Jan. 2014	Prof. Harimohan Pillai	90
3	Landscape	19Apr. 2014	Prof. Anuradha Rathor	90
4	Green Building	26 Jun. 2015	Prof. Himadri Guha	70
5	Park Land Design	27 Jun. 2015	Prof. Mallika Bose	75
6	Heritage Management	27 Jun. 2015	Prof. Sanghamitra Basu	72
7	Design Expression	26 Jun. 2015	Prof. Keshav Gangadhar	71
8	Architectural Acoustics	15 Feb. 2016	Prof. Tapas Bhattacharya	105
9	Urban Design	18 Mar. 2016	Prof. Suvrendu Das	120

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33. Teaching methods adopted to improve Student learning: Power point presentations; Model making exercises, Design studio
 34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Rotaract Club, Kolkata
 35. SWOC analysis of the department and Future plans

Strengths :

1	Qualified faculty who are keen learners themselves. We can take the help of faculty from other departments for inter-disciplinary programs as well.
2	Good quality students who are willing to test themselves at national level competition
3	Good infrastructure with a modern library

Weaknesses :

1	Lack of exposure to urban environment
2	Lack of visiting faculty

Opportunities

1	To pursue consultancy projects and build research cells and laboratories.
2	To expose students to more interactive learning processes through MOU's with Industry.

Challenges

1	To integrate the educational curriculum more with increasing demands of the industry.
2	To increase awareness of the environment amongst students and society as a whole.

Declaration by Head of the Institution



**OmDayal Group
of Institutions**

ENGINEERING & ARCHITECTURE COLLEGE
AICTE & CDA approved & WBUT affiliated institution

Campus :-
Flat No. 38(P), 38(A), 38(P) & 38(A)
Usherna Industrial Growth Centre
Usherna, Dist. Howrah - 711114
P (833) 2961 3179 F (833) 2661 3346
www.omdayal.com E ocollet@odgoin.in
Regd. & Administrative Office :-
Flat No. 81, Quaker Mansions
12, Park Street, Kolkata - 700 071
P (983) 17 22265 / 98318 22266
F (833) 3227 3967

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the

Institution with seal:

(Prof. S.N. Chattopadhyay)
Principal-in-Charge
OmDayal Group of Institutions
Usherna, Howrah

Place: *Usherna*

Date: *18-03-2017*

— A unit of & owned by OmDayal Educational & Research Society —

Annexure – I

AICTE Approval Letter



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandralok Building, Jansath, New Delhi-110 031
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Eastern/1-251100000/2016EDA

Date: 05-Apr-2016

To,

The Secretary (Technical Education)
Govt. of West Bengal,
Bikash Bhawan, Room No. 602,
6th Floor Salt Lake, Kolkata-700091

Subj: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2015-17

Dr/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.3735,Legal/2012 dated 27.09.2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to:

Regional Office	East	Application Id	1.021100000
Name of the Institute	OMDAYAL GROUP OF INSTITUTIONS	Formed Id	1-10368751
Name of the Society/Trust	OMDAYAL EDUCATIONAL & RESEARCH SOCIETY	Institute Address	Plot No. 38(F), SWA, SWA, 38(F) ULUBERIA INDUSTRIAL GROWTH CENTRE, ULUBERIA, HOWRAH, West Bengal, 711216
Institute Type	Unaided - Private	Society/Trust Address	Unit No. 102, 10TH FLOOR 4, B. S. D. BASHI (EAST), KOLKATA, KOLKATA, West Bengal, 700007

Consent for change from Women to Co-educational mode	No	Consent for change of name	No	Consent for change of site	No
Change from Women to Co-educational and Vice versa	Not Applicable	Change of name Approval	Not Applicable	Change of site Approval	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application No. 1.021100000			Course	Type of Programme	Affiliating body	Intake (2015-16)	Intake (Proposed for 2016-17)	MSI Approval status	PG/PHD/Call letters Approval status	Foreign Collaboration/Change Program Approval status
Program	Seat	Level								
ARCHITECTURE	16	UAD/ED/GRADUATE	ARCHITECTURE	FULL TIME	West Bengal University of Technology Kolkata	40	40	NA	NA	NA

(Prof. S.N. Chattopadhyay)
Principal-in-Charge
OmDayal Group of Institutions,
Uluberia, Howrah

Application Number: 1.021100000
Note: This is a Computer generated Report. No signature is required.
Printed by: AM254421

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Letter Printed On: 20 April 2016



All India Council for Technical Education
 (A Statutory body under Ministry of HRD, Govt. of India)
 7th Floor, Chhatrapati Building, Janpath, New Delhi- 110 001
 PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724153 www.aicte-india.org

ARCHITECTURE	1st SEM	UND GR A DUA TE	B. ARCHITECTURE	FULL TIME	West Bengal University of Technology, Kolkata	80	80	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR A DUA TE	CIVIL ENGINEERING	FULL TIME	West Bengal University of Technology, Kolkata	80	80	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR A DUA TE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	West Bengal University of Technology, Kolkata	80	80	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR A DUA TE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	West Bengal University of Technology, Kolkata	80	80	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st SEM	UND GR A DUA TE	MECHANICAL ENGINEERING	FULL TIME	West Bengal University of Technology, Kolkata	80	80	NA	NA	NA

The above mentioned approval is subject to the condition that (SIX) GROUP OF INSTITUTIONS shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

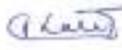
In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. ST-3/lega/AICTE/2008 dated July 1, 2008 for Prevention and Prohibition of Ragging in Technical Institutions. In case institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators of incidents of Ragging, it will be liable to take any action as defined under clause 9(A) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Anirash S Paul
 Vice - Chairman, AICTE

Copy to:
 1. The Regional Officer,
 All India Council for Technical Education
 College of Leader Technology Campus
 Block LB, Sector II, Salt Lake City
 Kolkata - 700 094, West Bengal


 (Prof. S.N. Chattopadhyay)
 Principal-in-Charge
 OmDayal Group of Institutions
 Ubaria, Howrah

Application Number: 1-281180890
 Note: This is a Computer generated Report/No signature is required.
 Issued by: AN259421

Page 2 of 3
 Letter Pored On:20 April 2019



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandrasekhar Building, Janpath, New Delhi- 110 001
PHONE: 2372415/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

3. The Director of Technical Education,
West Bengal
3. The Registrar,
West Bengal University of Technology, Kolkata
4. The Principal / Director,
OMDAYAL GROUP OF INSTITUTIONS
PLOT NO. 30(P), 38A, 38B, 39(P) ULUBERIA INDUSTRIAL GROWTH CENTRE,
ULUBERIA, HOVRAH,
West Bengal, 711135
5. The Secretary / Chairman,
OMDAYAL EDUCATIONAL & RESEARCH SOCIETY
UNIT NO. 102, 5TH FLOOR, 4, B. B. D. BAGH (EAST),
KOLKATA, KOLKATA,
West Bengal, 700001
6. Guard File (AICTE)

(Prof. S.N. Chattopadhyay)
Principal-in-Charge
OmDayal Group of Institutions
Uluberia, Hoarah

Annexure – II

University Affiliation Letter



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly West Bengal University of Technology)
Office of the Inspector of Colleges
BF-142, Salt Lake City, Kolkata - 700 064
Tel. No. (033)2321-7988, (033)2326-1014/1015/1022/1024/1031, Fax: (033)2321-8776

No. 275 / B.TECH / B.ARCH / Affiliation - 2016-17 Date: 30/05/2016

The RENEWAL affiliation is hereby accorded for the academic year 2016-17 under Section 5(4) of the West Bengal University of Technology Act, 2000 (West Bengal Act XV of 2000) to

OMDAYAL GROUP OF INSTITUTIONS
PLOT NO. 38(P), 38A, 39A, 39(P), ULUBERIA INDUSTRIAL GROWTH CENTRE,
HOWRAH, WEST BENGAL, 711116. [College Code : 275]

for conducting the following course(s) with the intake indicated below :

PROGRAM	LEVEL OF COURSE	NAME OF COURSE	INTAKE FOR 2016-17
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	60
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	60
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	60
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	60
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	ARCHITECTURE	40
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B.Arch (GENERAL)	40

The above affiliation is issued subject to fulfillment of the following terms and conditions :

1. That this Affiliation/Renewal Affiliation is being granted based on the (i) The hard copy of the computer generated report containing 113 Pages of the AICTE approved College list for the Academic Year 2016-2017 duly authenticated by the Hon'ble Vice-Chancellor dated 19.05.2016 which had been received by him through email dated 18.05.2016 and (ii) Decision dated 19.05.2016 of the Hon'ble Vice-Chancellor, MAKAUT, WB in the File No. IC-184/2016.
2. That the sponsoring Society / Trust/Company established under Section 25 of Companies Act, 1956 shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the MAKAUT, WB and AICTE from time to time and for meeting recurring expenditure.
3. That the admission and conduct of courses shall be made in accordance with the regulations notified by the State Govt., MAKAUT, WB and AICTE from time to time.
4. That the curriculum of the course, the procedure for evaluation/assessment of students and infrastructure in the classes, laboratories & library shall be in accordance with the norms prescribed by the MAKAUT, WB and AICTE.
5. That the Institution shall not allow closure of the institution or discontinuation of the course(s) or start any new course(s) of after intake capacity of seats without the prior approval of the MAKAUT, WB and AICTE.



(Prof. S.N. Chattopadhyay)
Principal-in-Charge
OmDayal Group of Institutions
Uluberia, Howrah





6. That no excess admission shall be made by the Institution over and above the approval intake under any circumstances. In case any excess admission is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
7. That the Institution shall not conduct any courses in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of MAKAUT, WB and AICTE. In case any violation is reported to / founded by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
8. That the Institution shall not conduct any non-technical courses in the same premises / campus under any circumstances. In case any violation is found by the MAKAUT, WB, appropriate penal action including withdrawal of affiliation shall be initiated against the Institution.
9. That the Institution shall operate only from the approved location, and that the Institution shall not open any off campus study centres / extension centres directly or in collaboration with any other Institution / University / Organisation for the purpose of imparting technical education without obtaining prior approval from the MAKAUT, WB and AICTE.
10. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the MAKAUT, WB.
11. That the Institution shall furnish requisite returns & reports as desired by MAKAUT, WB in order to ensure proper maintenance of administrative & academic standards.
12. That the Director / Principal and the teaching staff, Technical Assistants and other staff shall be selected according to procedures, qualifications and experience prescribed by the MAKAUT, WB / AICTE / UGC. Their time to time and pay scales and other allowances & benefits shall be as per the norms prescribed by the Govt. of W.B. / UGC / AICTE. from time to time.
13. That if the Institution fails to disclose the information or suppress and/or misrepresents the information, appropriate action could be initiated including withdrawal of MAKAUT, WB affiliation.
14. MAKAUT, WB may carry out random inspections round the year for verifying the status of the Institution to ensure maintenance of norms and standards prescribed by MAKAUT, WB/AICTE. Deficiencies / Shortcomings if any (in respect of built-up area requirement, institutional area requirement, laboratories requirement, computer requirement, library requirement, full-time faculty members requirement and other desirable requirements etc. in accordance with the AICTE / MAKAUT, WB norms) as were will be pointed out shall have to be removed within a reasonable time to be prescribed by MAKAUT, WB failing which penal action including withdrawal of affiliation shall be initiated against the Institution.
15. That the MAKAUT, WB may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc. Adverse findings will lead appropriate penal action including withdrawal of affiliation.
16. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. C 426-1998 and norms as regulated by the UGC & AICTE.
17. The Institution shall remain bound by the norms, rules and regulations formulated by the University in respect of the conditions of affiliation, course & the structure, syllabi content and academic regulations governing the conduct of the courses and shall pay fees / charges to be fixed by the University in respect of inspection, affiliation, registration of students, examination fees, etc. including any subsequent changes therein introduced by the University from time to time.




(Prof. S.N. Chattopadhyay)
Principal-in-Charge
OmDayal Group of Institutions
Uluberia, Howrah



In the event of closure of the institution, the Organizing Society / Trust will not close institutions till the last batch of students admitted in the academic programmes complete the total duration of their respective academic programmes (i.e. 2 years, 3 years, 4 years etc. as the case may be).

18. The University will have no financial liability whatsoever for conducting the courses.

Any abridgement / contravention / non-compliance of the conditions mentioned above lead to withdrawal of affiliation. All liabilities arising out of such withdrawal would solely rest upon to that of organizing Trust / Society. After completion of the academic year (2016 – 2017), the Institute will seek renewal of affiliation course-wise for the year (2017 – 2018).

Checked & Verified

S. Saha

(Sajit Kumar Saha)

S. Saha
Inspector of Colleges

Copy forwarded for information and necessary action to:

1. The Principal / Director,
OMDAYAL GROUP OF INSTITUTIONS
FLGT. NO.- 38(P)- 38A, 39A- 39PL, ULLIBERIA INDUSTRIAL GROWTH CENTRE, HOWRAH, WEST-BENGAL, 711318.
2. The Chairman, West Bengal Joint Entrance Examinations Board, AQ 13/1, Sector V, Salt Lake, Kol - 91.
3. The Principal Secretary, HED, Govt. of W.B., Bkash Bhavan, Salt Lake, Kolkata - 700 091.
4. The Regional Officer, Eastern Regional Office, AICTE, Block LB, Sector III, Salt Lake, Kolkata - 98.
5. The Vice-Chancellor's Unit.
6. The Registrar's Unit.
7. The Controller of Examinations' Unit.
8. The Finance Officer's Unit.
9. The Inspector of Colleges' Unit.
10. GENERAL Guard File.
11. AFFILIATION GUARD FILE.
12. College File.



S. Saha
Inspector of Colleges

(Prof. S.N. Chattopadhyay)
Principal-in-Charge
Omdhayal Group of Institutions
Ulubera, Howrah