Academic Programs

The Institution offers 5 Under Graduate Programs viz. B.Tech. in Civil, Computer Science, Electronics & Communication, Electrical and Mechanical Engineering.

Processes followed to improve quality of Teaching &Learning

- Institute calendar of events is prepared well in advance before the commencement of the semester based on college calendar of events. It consists of the activities planned for the semester which includes internal test dates, display of internal marks ,conduction of events like organizing guest lectures, conferences etc.
- Subject allotment is done well in advance for the staff to prepare lesson plans, course plan, soft and hard copies of the lecture notes.
- As per the university guidelines 6-8 experiments are to be conducted. One or two experiments are conducted beyond the specified list for relevant courses. Laboratory manual explaining the details of the experiment, designing issues are available with the course teacher and are given to students at the commencement of the semester.

The faculty of department adopts various innovative Teaching & Learning methodologies to create the best learning environment for students.

- These methodologies include traditional black board teaching, presentations, video lecturing, collaborative learning methods are used where every concept is explained with real world illustrations, design and problematic aspects are conveyed by a short cut method.
- The faculty are now oriented towards Outcome based Education (OBE) and are actively utilizing the OBE to cater the learning needs of students by innovative way.
- Lecture Session duration 50 minutes. Laboratory duration is 3 hrs.
- Assignments are given to students for their better performance.
- Invited talks and seminars on the current trends are done regularly from the industry persons.
- Tutorial/Remedial classes are conducted for the slow learners based on their performance in external exams and after the first internals.
- Motivating and guiding students for higher studies and university ranks.
- Technical quiz is conducted for the students.
- All the faculties are requested to maintain Attendance registers, course files, Work dairies.
- Industrial visits are conducted at least once a year to reduce the gap between industry and institute.
- Workshops are organized to help the students to understand concepts beyond curriculum.
- One-one discussion, interaction between Professors and students has increased confidence levels of the students.

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- Identification of bright and weak students. Motivate the weak students to attend tutorials and help them solve more problems. Encourage the bright students to attend more workshops and technical talks.

Quality of internal semester Question papers, Assignments and Evaluation

- **Initiatives and Implementation details for improving the quality of Internal Semester Question papers (Internal Assessment Test)**

  - The department conducts two internal assessment tests according to the academic calender.
  - Each test covers one half of the syllabus.
  - The tests are conducted for a maximum of 30 marks. (No minimum marks criteria from the university).
  - The duration of the test is one hour and question paper are set to make the student to learn timemanagement.

- **Question Papers:**

  - For each subjects, question bank is prepared.
  - While setting the question paper all previous university exam papers are taken into consideration.
  - According to level of toughness the questions are prepared (viz., analyzing the problems, implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.

  The questions will be of three categories:

    - One third of the questions is straight and can be answered by all students.
    - One third of the questions need analysis and use of content covered as per syllabus.
    - Remaining one third of the questions is not straight. Certain amount of thinking, analysisand mathematical knowledge are required to resolve.

- **Assignments:**

  - Assignment issue and submission dates are announced by the respective faculty members.
  - Assignment questions are prepared using Bloom's Taxonomy process.
  - Surprise tests, quizzes, video links are provided.
  - In order to bridge the gap in curriculum, bright students are given some assignment beyond syllabus.

- **Evaluation:**

  - The faculties after every internal assessment test they explain the solution

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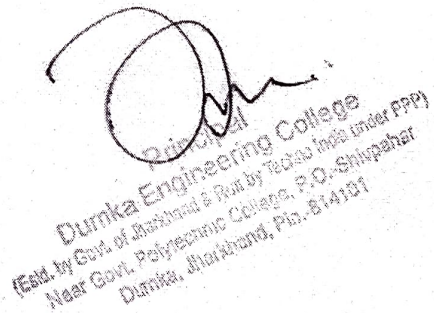
of the questions in theclass which will enable them to perform well in the final examination.

- For any genuine reasons, if a student was unable to perform well in the given two internalassessment tests, improvement test is given to him/her.
- The average of the marks obtained from any best two test is chosen for the award of internalassessment marks.
- If a candidate remains absent for all the tests conducted, the Internal assessment marks are markedas "Absent" in the result.
- Assignments are used as a tool for practice and evaluation is based purely on Internal AssessmentTest.

- **Impact analysis**

  - Very good results in Internal and External examination.
  - Improvement in overall performance of students thus improves the placement and higherstudies.
  - The stimulating environment made students to plan their study plan for better performance



Evaluation

Quality of internal semester Question papers, Assignments and Evaluation

Initiatives and Implementation details for Improving the quality of Internal Semester Question papers (Internal Assessment Test)

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- Assignment issue and submission dates are announced by the respective faculty members.
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- Surprise tests, quizzes, video links are provided.
- In order to bridge the gap in curriculum, bright students are given some assignment beyond syllabus.

* Evaluation:

- The faculties after every internal assessment test they explain the solution of the questions in the class which will enable them to perform well in the final examination.
- For any genuine reasons, if a student was unable to perform well in the given two internal assessment tests, improvement test is given to him/her.
- The average of the marks obtained from any best two test is chosen for the award of internal assessment marks.
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Impact analysis

- Very good results in Internal and External examination.
- Improvement in overall performance of students thus improves the placement and higher studies.
- The stimulating environment made students to plan their study plan for better performance

Initiatives and implementation details of improving Quality of Laboratory Experiments (Assignments)

- The college organize/encourages inter collegiate contests to encourage students to demonstrate their programming skills, circuit debugging skills.
- The Laboratories are conducted in session of 3 hours, in each session thefaculty explains the circuit experimented.

External Examination Process

Type of Assessment	Total marks	Time duration
External examination	70	3 hours

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3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels **Total Marks: 40**

Subject Code: CE303

Dumka Engineering College
Department of Electronics and Communication Engineering
Course Outcome Attainment

Name of Faculty: Mr. Gourab Mondal
Branch: CE
Subject: CE 601 Highway & Transportation Engineering
Year: 3rd

Academic year:2017-18
Exam: 1st Internal
Batch:2015-2019
Semester: Sixth

Tragetin 55%

			CO3	CO3	CO2	CO4	CO1	CO1	CO1		
		Max Marks	8	7	6	3	2	1	3	30	10
ROLL NO	STUDENT NAME	UNIVERSITY ROLL NO	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	TOTAL	Assig n
0102	Akash Arman	0122/15	6	4	4	0	2	0	1	17	9
0103	Sewan Prasad Mahato	0016/15	6	0	4	0	1	0	0	11	8
0104	Aditya Anand	0100/15	6	3	5	0	2	1	0	17	8
0105	Vishal Pandey	0050/15	0	3	2	1	2	1	0	9	8
0106	Laxmi Hembrom	0163/15	6	3	4	0	0	0	0	13	7
0107	Asha Harandi	0118/15	6	4	5	0	2	0	0	17	8
0108	MD Wallullah	0095/15	8	5	1	1	2	1	2	20	7
0109	Vivek Kumar Jamuar	0162/15	5	3	3	2	2	0	2	17	7
0110	MD Taukir Alam	0087/15	6	2	3	0	1	0	0	12	7
0111	Rajiv Ranjan	0001/15	5	3	3	2	2	0	2	17	7
0112	Rohit Kumar Verma	0117/15	6	4	2	2	2	1	2	19	8
0113	Arnav Kumar	0072/15	8	0	1	1	2	1	1	14	7
0114	Piyush Kumar	0110/15	6	3	6	1	2	1	0	19	8
0115	Kumar Kamal Kishor	0080/15	8	5	5	0	1	1	3	23	7
0116	Shivam Kumar	0025/15	0	5	3	0	1	0	0	9	7
0117	Sanjay Kumar Pandey	0067/15	6	5	2	1	2	1	3	20	8
0118	Zamil Akhtar	0103/15	8	6	5	0	2	1	1	23	8
0119	Rajesh Roshan	0125/15	5	3	3	2	0	0	0	13	7
0120	MD Faiyaz Ansari	0093/15	6	2	4	0	2	1	2	17	7
0121	Abhishek Prakash	0023/15	6	2	4	2	1	1	1	17	8
0122	Vishal Gourav	0120/15	7	5	3	0	2	1	0	18	8
0123	Shailendra Kumar mandal	0065/15	6	3	3	0	2	1	0	15	8
0124	Nishant Shekhar	0169/15	0	3	5	0	2	1	0	11	7

0125	MD Shabir Hussain	0161/15	0	5	5	0	2	1	1	14	6
0126	Avinash Kumar Rahi	0028/15	6	5	5	1.5	1.5	1	2	22	8
0127	Mohammad Irfan Ansari	0150/15	0	2	5	0	2	1	2	18	7
0128	Gautam Kumar	0180/15	8	4	5	0	2	1	1	21	6
0129	Sweta Murmu	0153/15	8	0	4	0	2	1	3	18	7
0130	Basudev Singh	0054/15	8	4	4	0	2	1	0	19	7
0131	Ashwani Soren	0176/15	4	4	1	5	0	0	0	16	8
0132	Sourav Jha	0086/15	6	1	3	0	1	0	0	12	6
0133	Nandu Hasda	0113/15	0	3	4	0	2	1	1	11	6
0134	Vimal Panna	0193/15	8	6			1		2	17	8
0135	Sushant Kumar Murmu	0099/15	0	3	4	0	2	1	3	13	8
0136	Pratibha Kisan	0182/15	2	0	5	2	1.5	0	0.5	11	8
0137	Parmeshwar Murmu	0020/15	3	7	0	0	2	0	0	12	6
0138	Sarabani Rabha	0014/15	6	7	2	0	2	1	1	19	7
0139	MD Wasim Raza	0145/15	6	2	3	0	1	0	0	12	8
0140	Lachan Tirkey	0157/15	8	0	6	0	0	0	0	14	6
0141	Rajesh Kumar	0099/15	0	3	6	0	3	1	0	13	6
0142	Shiv Narayan Hembrom	0167/15	0	5	7	0	0	0	0	12	8
0144	Pritam Kumar Das	0078/15	0	6	0	0	0	0	0	12	6
0146	Kamal Ashwani	0182/15	5	3	2	2	2	0	0	15	8
0161	Prashant Mani Raj	1518S/14	6	5	4	2	2	1	2	23	8
0162	Shubham Kumar	0086/14	0	4	6	0	0	0	1	17	8
0163	Sandeep Kujur	0122/15	5	3	3	2	2	0	2	17	7
0164	HITESH KUMAR (L)		6	6	6	1	2	1	1	29	8
0165	SHRAVAN KUMAR (L)		6	4	3	0	0	0	0	13	8
0166	AMIT KUMAR (L)		0	3	4	0	2	1	1	11	6
0167	PUSHPA BAHADI (L)		5	3	3	2	2	1	1	17	8
0168	SANJU RAY (L)		6	7	5	0	0	0	3	17	7
0169	SUSHIL SAURAV (L)		6	5	5	0	3.5	1	3	21.5	8
0170	AJIT KUMAR (L)		6	7	5	1	2	1	3	25	8
0171	AMARAH KARMALI (L)		4	4	5	0	0	0	0	13	8
0172	TALHA NIZAM (L)		6	3	6	0	2	1	1	19	8
	Total marks Obtained=		113	65	69	15	31	31	29	324	161
	Number of students attempted the question		47	50	52	19	45	31	31	55	55
	Average Marks		2.4	1.3	1.33	0.79	0.69	1	0.65	5.89	2.75

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CO Mapping with Exam Question

CO1					Y	Y	Y		Y
CO2			Y						Y
CO3	Y	Y							Y
CO4				Y					Y
CO5									Y
CO6									Y

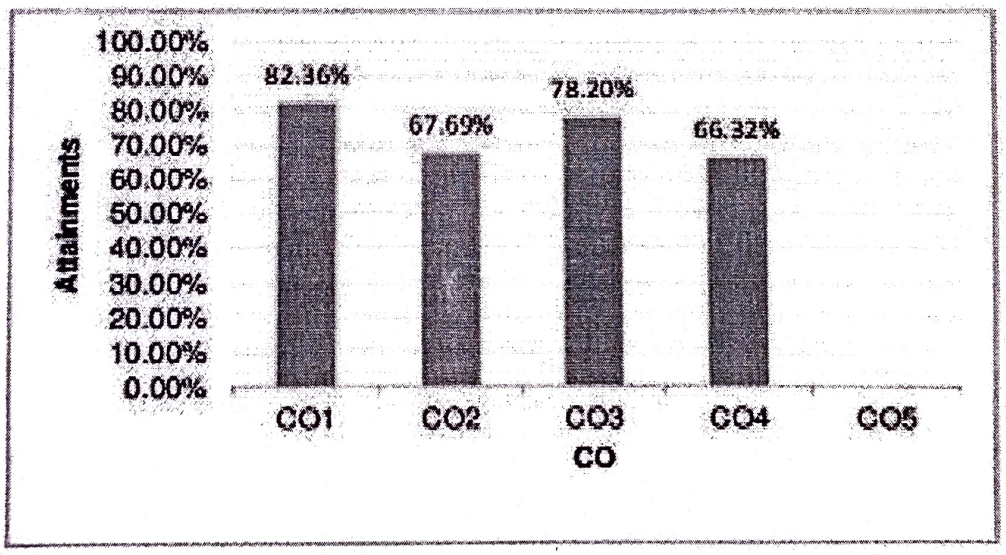
Student socred>Target %	43	27	31	11	37	31	16	31	55
% Student socred>Target %	91%	54%	60%	58%	82%	100%	52%	55%	100%

CO Attainment based on Exam Question

CO1					82%	100%	52%		100%
CO2			60%						100%
CO3	91%	54%							100%
CO4				58%					100%
CO5									100%
CO6									100%

CO	Sub.	Obj.	Assgn	Overall			Level
CO1	78%		100%	82.36%			2
CO2	60%		100%	67.69%			3
CO3	73%		100%	78.20%			3
CO4	58%		100%	66.32%			2
CO5							
CO6							

Overall Course attainment 3



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Grievances about internal examination:

In case if any students have any grievances about any of their internal examinations then the following measures (any one) are conducted:

1. Write application to the HOD of the concerned department mentioning proper reason with valid documents.

2. Write application to the exam controller mentioning proper reason with valid documents.

Action on Grievances:

HOD conveys the application to the exam controller or exam controller directly takes action regarding the submitted applications. If the application will be approved then the student can give the missed internal examination through department with different question paper and same method of examination.

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