

# PES Institute of Technology and Management

Civil Engg.

## Part A : Institutional Information

### 1 Name and Address of the Institution

PES Institute of Technology and Management,  
PES Campus, NH-206, Sagar Road, Guddada Arakere, Kotegangoor Post, Shivamogga-577204

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### 2 Name and Address of Affiliating University

Visvesvaraya Technological University

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### 3 Year of establishment of the Institution:

2007

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### 4 Type of the Institution:

<input type="checkbox"/> University	<input type="checkbox"/> Autonomous
<input type="checkbox"/> Deemed University	<input checked="" type="checkbox"/> Affiliated
<input type="checkbox"/> Government Aided	

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## 5 Ownership Status:

<input type="checkbox"/> Central Government	<input checked="" type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input type="checkbox"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

## 6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
PES Institute of Advanced Management Studies	2008	Commerce, Computer Application	NH 206, Sagar Road, Shivamogga
PES Pre University College	2009	11th and 12th Standard	NH 206, Sagar Road, Shivamogga
PES Public Schools	2010	CBSE - 1st Standard to 10th Standard	NH 206, Sagar Road, Shivamogga
PES Polytechnic	2011	Diploma Courses	NH 206, Sagar Road, Shivamogga

## 7 Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Civil Engineering	UG	2013	2013	60	No	60	Applying first time	--	--	Yes	4
Computer Science and Engineering	UG	2007	2007	120	No	120	Applying first time	--	--	No	4

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Computer Science and Engineering	PG	2014	2014	24	Yes	0	Not eligible for accreditation	--	--	0	2
<b>Sanctioned Intake for Last Five Years for the Computer Science and Engineering</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2019-20				0							
2018-19				0							
2017-18				24							
2016-17				24							
2015-16				24							
2014-15				24							
Electronics and Communication Engineering	UG	2007	2007	120	No	120	Applying first time	--	--	0	4
Digital Electronics	PG	2014	2014	24	Yes	0	Not eligible for accreditation	--	--	0	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
<b>Sanctioned Intake for Last Five Years for the Digital Electronics</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2019-20				0							
2018-19				0							
2017-18				24							
2016-17				24							
2015-16				24							
2014-15				24							
Information Science and Engineering	UG	2007	2007	60	No	60	Applying first time	--	--	0	4
Mechanical Engineering	UG	2010	2010	120	No	120	Applying first time	--	--	0	4
Electrical and Electronics Engineering	UG	2007	2007	60	No	60	Not eligible for accreditation	--	--	No	4
Master of Business Administration	PG	2008	2008	120	Yes	60	Eligible but not applied	--	--	No	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
<b>Sanctioned Intake for Last Five Years for the Master of Business Administration</b>											
<b>Academic Year</b>				<b>Sanctioned Intake</b>							
2019-20				60							
2018-19				60							
2017-18				60							
2016-17				60							
2015-16				60							
2014-15				120							

**8 Programs to be considered for Accreditation vide this application:**

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Computer Science & Engg.
3	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
4	Under Graduate	Engineering & Technology	Information Science & Engg.
5	Under Graduate	Engineering & Technology	Mechanical Engg.

**9 Total number of employees in the institution:**

**A. Regular\* Employees (Faculty and Staff):**

Items	2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	74	76	79	80	77	78
Faculty in Engineering (Female)	18	18	18	20	21	21
Faculty in Maths, Science & Humanities (Male)	7	7	6	6	7	7
Faculty in Maths, Science & Humanities (FeMale)	7	7	8	8	8	8
Non-teaching staff (Male)	24	27	22	25	21	22
Non-teaching staff (FeMale)	11	13	7	8	7	8

**B. Contractual\* Employees (Faculty and Staff):**

Items	2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	1	1	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

**10 Total number of Engineering Students:**

<b>Engineering and Technology- UG</b>	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>Engineering and Technology- PG</b>	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>Engineering and Technology- Polytechnic</b>	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>MBA</b>	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
<b>MCA</b>	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

### Engineering and Technology- UG Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	1096	1088	1188
Total no. of Girls	930	935	936
<b>Total</b>	<b>2026</b>	<b>2023</b>	<b>2124</b>

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### Engineering and Technology- PG Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	0	0	2
Total no. of Girls	0	0	1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>

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### Engineering and Technology- MBA Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	68	49	48
Total no. of Girls	51	56	64
<b>Total</b>	<b>119</b>	<b>105</b>	<b>112</b>

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### 11 Vision of the Institution:

To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.

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## 12 Mission of the Institution:

To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.

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## 13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr. Chaitanya Kumar M V
Designation	Principal
Mobile No.	9380741865
Email ID	principal_pestim@pes.edu

### NBA Coordinator, If Designated

Name	Dr. Jagadeesha S N
Designation	Professor and HOD, Department of Computer Science & Engineering
Mobile No.	9916104383
Email ID	hodcse@pestrust.edu.in

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## PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	52.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	98.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	96.00
4	STUDENTS' PERFORMANCE	150	83.58
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	114.09
6	FACILITIES AND TECHNICAL SUPPORT	80	51.00
7	CONTINUOUS IMPROVEMENT	50	29.00
8	FIRST YEAR ACADEMICS	50	36.73
9	STUDENT SUPPORT SYSTEMS	50	39.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	110.00
	<b>Total</b>	<b>1000</b>	<b>710</b>

## Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 52.00

1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.										
Mission of the institute	To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.										
Vision of the Department	To be the Center of Excellence in the field of Civil Engineering for innovative practices, managerial skills and ethical values for sustainable Development										
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th> <th>Mission Statements</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>To impart academic growth by offering technical knowledge and industry-oriented interactions.</td> </tr> <tr> <td>M2</td> <td>To encourage innovative and creative practices through continuous learning</td> </tr> <tr> <td>M3</td> <td>To develop ideologies of teamwork, leadership qualities and effective communication through constant encouragement.</td> </tr> <tr> <td>M4</td> <td>To inculcate ethical values to serve society and country for the sustainable development.</td> </tr> </tbody> </table>	Mission No.	Mission Statements	M1	To impart academic growth by offering technical knowledge and industry-oriented interactions.	M2	To encourage innovative and creative practices through continuous learning	M3	To develop ideologies of teamwork, leadership qualities and effective communication through constant encouragement.	M4	To inculcate ethical values to serve society and country for the sustainable development.
Mission No.	Mission Statements										
M1	To impart academic growth by offering technical knowledge and industry-oriented interactions.										
M2	To encourage innovative and creative practices through continuous learning										
M3	To develop ideologies of teamwork, leadership qualities and effective communication through constant encouragement.										
M4	To inculcate ethical values to serve society and country for the sustainable development.										

**1.2 State the Program Educational Objectives (PEOs) (5)**

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Function effectively as Civil Engineering Professionals in the field of Construction, Infrastructure Development and Architecture.
PEO2	Develop managerial and entrepreneurship skills for serving locally, nationally as well as globally
PEO3	Ethically relate Engineering issues to broader social and human context to achieve sustainable solutions

**1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)**

Total Marks 8.00

Department Vision & Mission Statements are disseminated through

- Departmental website (<https://pestrust.edu.in/pesitm/civil/>)
- Cabin of Head of the Department
- Class rooms and laboratories
- Lab manuals
- News letter
- Circulation area
- Handouts to students

Department PEOs are disseminated through

- Departmental website (<https://pestrust.edu.in/pesitm/civil/>)
- Cabin of Head of the Department
- Laboratories
- Lab manuals
- News letter
- Handouts to students

**1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)**

Total Marks 22.00

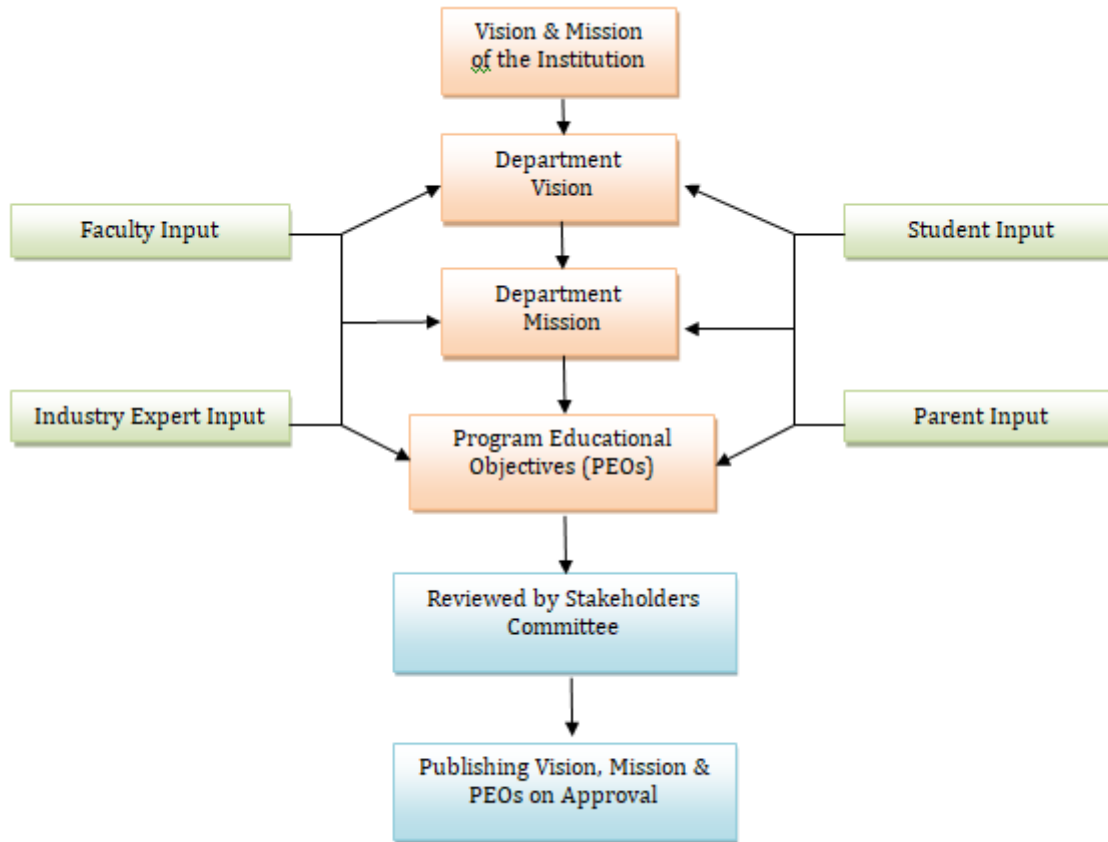
Institute Marks : 22.00

The Process of defining the vision & mission statements of the department is through stakeholders committee which comprises of

1. Industry Representatives
2. Faculties / Faculty Representatives
3. Student Representatives
4. Parent Representatives

The vision and mission statements are stated based on the vision and mission of the Institution and in relevance with the nature of the program. With the help of opinion of Stakeholders committee, the process is carried out through reiteration process.

Flow diagram of the process is as mentioned below.



**Fig 1.1 Process flow of defining vision, mission & PEOs**

Program Educational Objectives are also framed through the Stakeholders committee and in relevance with the vision and mission statements of the department

**1.5 Establish consistency of PEOs with Mission of the Department (15)**

Total Marks 12.00

Institute Marks : 12.00

**Table 1.1 Consistency of PEOs with Mission of the Department**

<b>Mission Statement</b>	To impart academic growth by offering technical knowledge and industry-oriented interactions.	To encourage innovative and creative practices through continuous learning	To develop ideologies of teamwork, leadership qualities and effective communication through constant encouragement.	To inculcate ethical values to serve society and country for the sustainable development.
<b>PEO Statement</b>				
Function effectively as Civil Engineering Professionals in the field of Construction, Infrastructure Development and Architecture	<b>3</b> <i>Technical knowledge is the essential requirement in all professional practices of Civil Engineering</i>	<b>2</b> <i>For progressive career, developing and adopting new approaches is significant, but scope is limited in curriculum</i>	<b>3</b> <i>To Function effectively in a group and to lead a group is essential in professional setup.</i>	<b>2</b> <i>As sustainability is not practiced universally in all professional setup</i>
Develop managerial and entrepreneurship skills for serving locally, nationally as well as globally	<b>1</b> Effective management does not solely depend on the technical skills	<b>3</b> Civil Engineering offers best opportunity to be self employed, success of which depends on creative skills	<b>3</b> To lead from the front and set an example is the desired character for entrepreneur.	<b>2</b> Through Ethical practices by individuals at an enterprise, contribution to the society is possible, but perspective in nature
Ethically relate Engineering issues to broader social and human context to achieve sustainable solutions	<b>2</b> <i>Only technical skill will not govern achieving the balance between technology, ecology and societal concerns</i>	<b>2</b> <i>Research and development , innovations in engineering is the way to address the social needs, but scope is limited in curriculum</i>	<b>2</b> <i>Self Motivation and working in unit for social issues and causes are the need of the hour, but has to be cultivated at individual level.</i>	<b>3</b> <i>Suggesting, adopting and practicing sustainability to resolve prevailing socio-economic aspects has to be the responsibility of engineers</i>

<b>PEO Statements</b>	<b>M1</b>	<b>M2</b>	<b>M3</b>	<b>M4</b>
Function effectively as Civil Engineering Professionals in the field of Construction, Infrastructure Development and Architecture.	3 ▾	2 ▾	3 ▾	2 ▾
Develop managerial and entrepreneurship skills for serving locally, nationally as well as globally	1 ▾	3 ▾	3 ▾	2 ▾
Ethically relate Engineering issues to broader social and human context to achieve sustainable solutions	2 ▾	2 ▾	2 ▾	3 ▾

## 2.1 Program Curriculum (20)

Total Marks 18.00

### 2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program

**Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any** Institute Marks : 10.00 (10)

PES Institute of Technology and Management, Shivamogga, has affiliation to Visvesvaraya Technological University (VTU), Belagavi. The syllabus/curriculum prescribed by the university for Under Graduate Program for Civil Engineering is followed. VTU curriculum contains mandatory courses and elective courses. The curriculum is formulated and reviewed once in 4 years (General Case) with the help of Board of Studies (BOS) comprising of a chairman and senior faculty members of the discipline.

At present Choice Based Credit System (CBCS) is adopted for all four years. CBCS scheme has been introduced from the academic year 2014-15 but effectively practiced from academic year 2015-16

- Students admitted in the year 2016-17 are under 2015 CBCS scheme (Students admitted - 54+16)
- Students admitted in the year 2017-18 are under 2017 CBCS scheme (Students admitted - 50+21)
- Students admitted in the year 2018-19 and 2019-20 are under 2018 CBCS scheme (Students admitted - 45+19 for 2018-19)

University prescribed Curriculum maintains the balance in the composition of

- Basic Science Courses
- Engineering Science Courses
- Professional Core Courses
- Professional Elective Courses
- Open Electives / Interdisciplinary courses
- Project / Seminar / Internship
- Mandatory Courses

Following details are indicative of the curriculum as prescribed by the affiliating university as applicable to 2015 scheme of study

**Table B 2.1.1 A**

Subject Code	Subject	Nature
15MAT11	Engineering Mathematics 1	Basic Science Course
15PHY12/22	Engineering Physics	Basic Science Course
15CIV13/23	Elements of Civil Engineering & Mechanics	Engineering Science Course
15EME14/24	Elements of Mechanical Engineering	Engineering Science Course
15ELE15/25	Basic Electrical Engineering	Engineering Science Course
15WSL16/26	Workshop Practice	Engineering Science Course
15PHYL17/27	Engineering Physics Lab	Basic Science Course
15CPH18/28	Constitution of India, Professional Ethics and Human Rights (CPH)	Mandatory Course
	Language (Kan.)	Mandatory Course
15MAT21	Engineering Mathematics 2	Basic Science Course
15CHE12/22	Engineering Chemistry	Basic Science Course
15PCD13/23	Programming in C & Data Structures	Engineering Science Course
15CED14/24	Computer Aided Engineering Drawing	Engineering Science Course
15ELN15/25	Basic Electronics	Engineering Science Course

15CPL16/26	Computer Programming Lab	Engineering Science Course
15CHEL17/27	Engineering. Chemistry Lab	Basic Science Course
15CIV18/28	Environmental Studies	Mandatory Course
	Language (Eng.)	Mandatory Course
15MAT31	Engineering Mathematics III	Basic Science Course
15CV32	Strength of Materials	Engineering Science Course
15CV33	Fluid Mechanics	Engineering Science Course
15CV34	Basic Surveying	Professional Core Course
15CV35	Engineering Geology	Professional Core Course
15CV36	Building Materials and Construction	Professional Core Course
15CVL37	Building Material Testing Lab	Professional Core Course
15CVL38	Basic Surveying Practice	Professional Core Course
15MAT41	Engineering Mathematics – IV	Basic Science Course
15CV42	Analysis of Determinate structures	Professional Core Course
15CV43	Applied Hydraulics	Professional Core Course
15CV44	Construction Technology	Professional Core Course
15CV45	Basic Geotechnical Engineering	Professional Core Course
15CV46	Advanced Surveying	Professional Core Course
15CVL47	Fluid Mechanics & Hydraulic Machinery Lab	Professional Core Course
15CVL48	Engineering Geology Lab	Professional Core Course
15CV51	Design of RC Structural Elements	Professional Core Course
15CV52	Analysis of Indeterminate Structures	Professional Core Course
15CV53	Applied Geotechnical Engineering	Professional Core Course
15CV54	Computer Aided Building Planning & Drawing	Professional Core Course
15CV55X	Professional Elective-1	Professional Elective Course
15CV56X	Open Elective-1	Open Elective Course
15CVL57	Geotechnical Engineering Laboratory	Professional Core Course
15CVL58	Concrete & Highway Materials Laboratory	Professional Core Course
15CV61	Construction Management & Entrepreneurship	Professional Core Course
15CV62	Design of Steel Structural Elements	Professional Core Course
15CV63	Highway Engineering	Professional Core Course
15CV64	Water Supply & Treatment Engineering	Professional Core Course
15CV65X	Professional Elective 2	Professional Elective Course
15CV66X	Open Elective 2	Open Elective Course
15CVL67	Software Application Lab	Professional Core Course
15CVP68	Extensive Survey Project	Professional Core Course
15CV71	Municipal and Industrial Waste Water Engineering	Professional Core Course
15CV72	Design of RCC and Steel Structures	Professional Core Course
15CV73	Hydrology and Irrigation Engineering	Professional Core Course
15CV74X	Professional Elective 3	Professional Elective Course
15CV751X	Professional Elective 4	Professional Elective Course
15CVL76	Environmental Engineering Laboratory	Professional Core Course
15CVL77	Computer Aided Detailing of Structures	Professional Core Course



15CVP78	Project Phase I +Project Seminar	Project / Seminar / Internship
15CV81	Quantity Surveying & Contract Management	Professional Core Course
15CV82	Design of Pre stressed Concrete Elements	Professional Core Course
15CV83x	Professional Elective 5	Professional Elective Course
15CV84	Internship / Professional Practice	Project / Seminar / Internship
15CVP85	Project Work	Project / Seminar / Internship
15CVS86	Technical Seminar	Project / Seminar / Internship

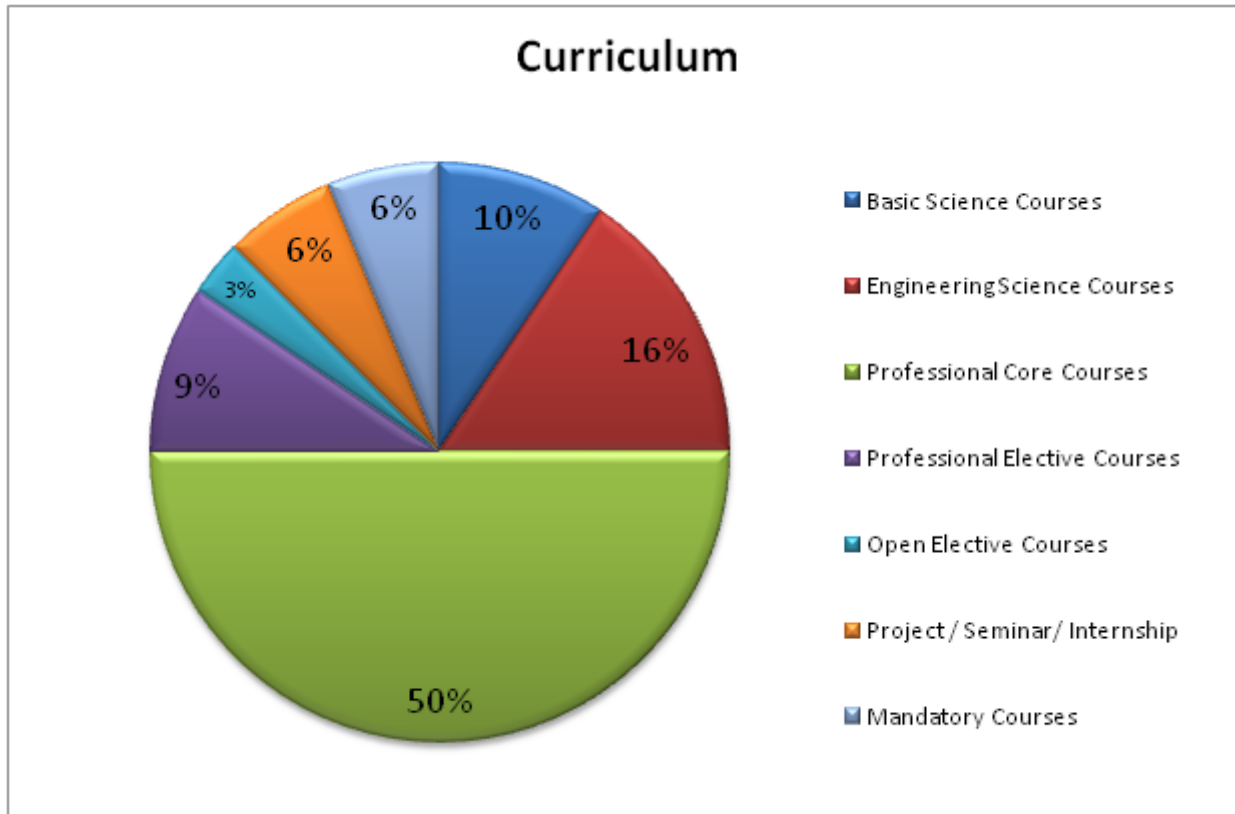


Figure B 2.1.1 A

Following table indicates the courses contributing towards attainment of PO's and PSO's.

All the PO's as mentioned in Annexure I and all the PSO's as defined by the Department may be demonstrably met through the university curriculum for Civil Engineering Undergraduate Program. Hence gap in the curriculum is not established.

Table B 2.1.1 B

**2018-19**

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1						

**2017-18**

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1						

**2016-17**

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1						

**2.2 Teaching - Learning Processes (100)**

Total Marks 80.00

**2.2.1 Describe processes followed to improve quality of Teaching & Learning (25)**

Institute Marks : 22.00

A standard practice has been framed and is being practiced to achieve the quality in Teaching and Learning Process. The processes followed to improve quality of Teaching and Learning are as follows.

A. **Time frame:** As each semester and the program is time bound, the course instructors needs a time frame.

- University provides the academic calendar to be followed for a semester, which includes commencement of semester, last working day of the semester, examination dates.
- Based on the academic calendar of the university, Calendar of events is prepared by the institute, which includes working days, holidays, and Internal Assessment Test schedule.
- Based on the calendar of events of the Institution, Calendar of events at departmental level is prepared, which includes activities planned for semester.
- In accordance with the calendar of events, time table is prepared at department level by the coordinators.
- Based on these inputs, course instructor prepares Lesson schedule for the course based on the syllabus.

This time frame will help the course instructor to have a proper plan to complete the course in an effective manner.

**B. Course Delivery Methods**

Course contents are delivered by the course instructor through various educational tools such as

- Chalk and talk

- Power point presentation (PPT)
- Demonstration of Experiments
- Tutorials
- Seminars
- Assignments

Delivery Method	Significance
Chalk and talk	Classroom lectures conducted using basic and conventional method of disseminating information to the students as per the curriculum. Students are encouraged to think and analyze the engineering problems.
Power point presentation (PPT)	Ideas and concepts taught during lectures are reinforced in the minds of students with the aid of presentations and videos
Demonstration of Experiments	Exposes the students on experimental and practical aspects of theory studied in classrooms. Lab-experiments help students in verifying the theory concepts by interpretation of results
Tutorials	Tutorials help the students in analyzing and solving the engineering problems based on the theory dealt during lectures. The tutorial sessions makes the concept clear to the students
Seminars	Students are made to present a seminar during their academic year. In this, the students are supposed to present on a particular topic by referring to various books, Journals of National and International repute
Assignments	Assignments make students self-reliant in solution of solving problems through understanding of theory through practice

### C. Attention to weak and bright students

Academically weak and bright students are identified based on the attendance and the results of Unit test / Class tests as well as internal assessment tests.

**i) Weak student support strategy:** Course Instructors and Mentors attempt to enhance the performance of weak student with following action plan

- Regular counseling and providing moral support
- Constant monitoring their performance
- Conducting Extra classes (remedial classes)
- Encouraging them for regular attendance.

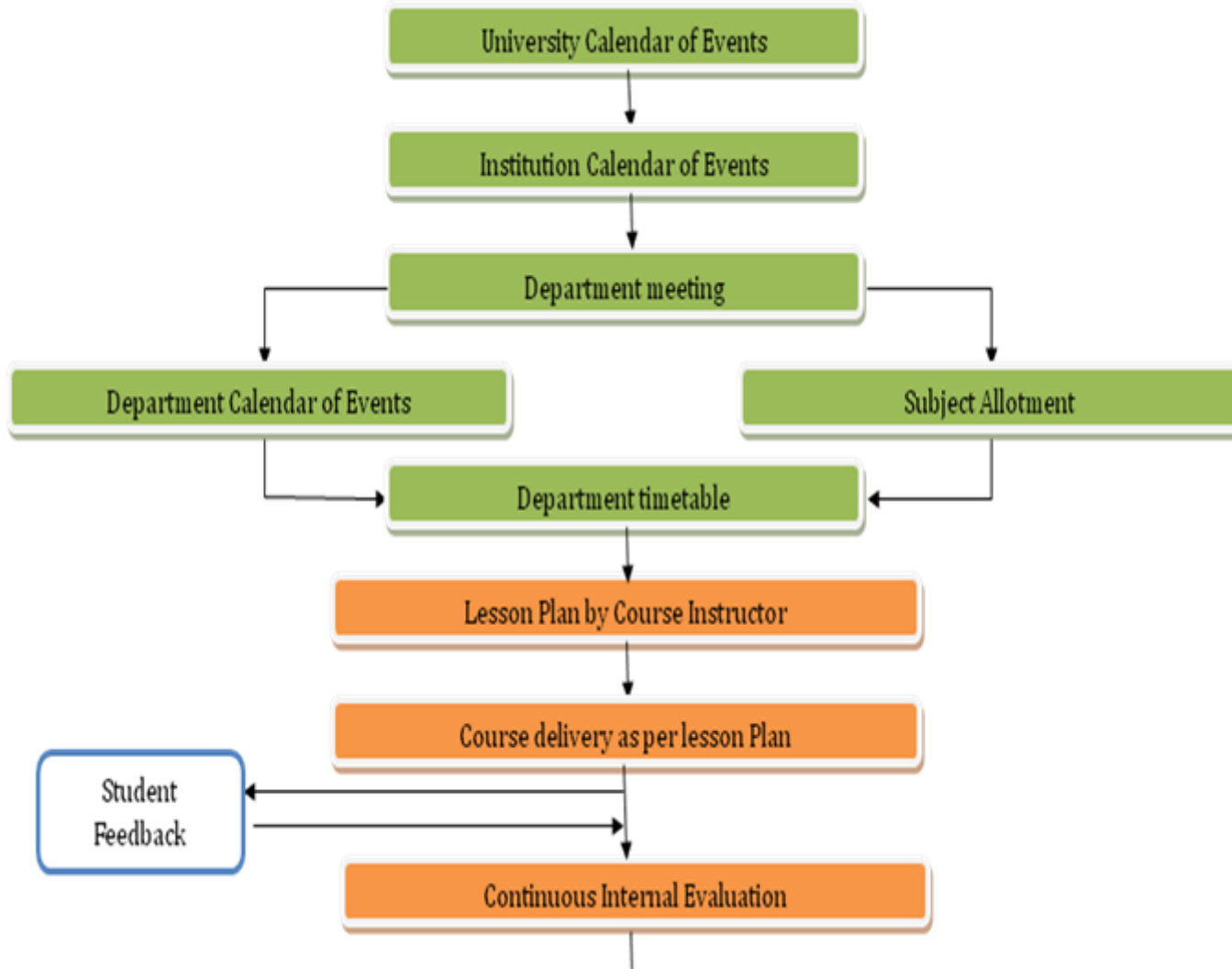
**ii) Bright student support strategy:** Course Instructors, Department and the Institute encourages bright students with following action plan

- Management provides Book coupons worth Rs. 750 for top 5 performers of all semesters.
- Encouragement towards participation in national level programs and competitions.
- Assisting and encouraging for publishing journals

**D. Effectiveness**

For effectiveness in teaching and learning, following measures are taken

- Well-structured lesson plans are prepared and executed for all theory and practical courses
- National Programme on Technology Enhanced Learning (NPTEL) videos from experts are used for effective teaching and learning
- Faculties and students are encouraged to register for NPTEL advanced courses and get online certifications.
- Course file containing all the details of the semester activities, initiatives related to the course is maintained by course instructor.



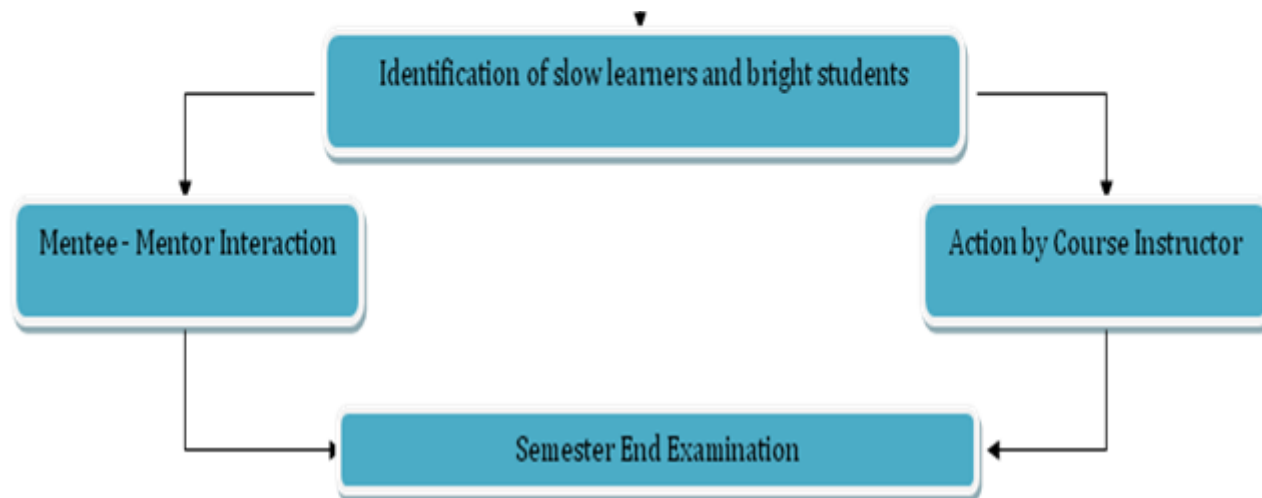


Fig. 2.2.1 A

### 2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 18.00

Internal assessments are conducted as per the regulations of the university and scheduled as per the calendar of events of the institution.

- Course instructor prepares the question paper by referring to previous year Semester End Examination papers.
- Questions are identified and related to the Course Outcomes as well as Bloom's Taxonomy.
- Course instructor also prepares the scheme of evaluation for the question paper, highlighting the distribution of marks for each question.
- Review committee reviews the question paper and the scheme of evaluation with respect to
  - Technicality of the paper
  - Difficulty level and duration
  - Marks allocations
  - Relevance to Course Outcomes and Bloom's Taxonomy
- Suggestions / corrections (if any) made by the review committee is incorporated in the question paper and the scheme of evaluation.
- Assessment is based on the approved scheme of evaluation
  
- **For 2018 scheme:** Continuous Internal Evaluation (40 Marks) and Semester End Examination (60 Marks)
- **For 2017 scheme:** Continuous Internal Evaluation (40 Marks) and Semester End Examination (60 Marks)
- **For 2015 scheme:** Continuous Internal Evaluation (20 Marks) and Semester End Examination (80 Marks)
- **For 2010 scheme:** Continuous Internal Evaluation (25 Marks) and Semester End Examination (100 Marks)

### 2.2.3 Quality of student projects (25)

Institute Marks : 20.00

Project topics and project guide allotment is based on the field of interest of the students. The process adopted is represented as a flow chart below

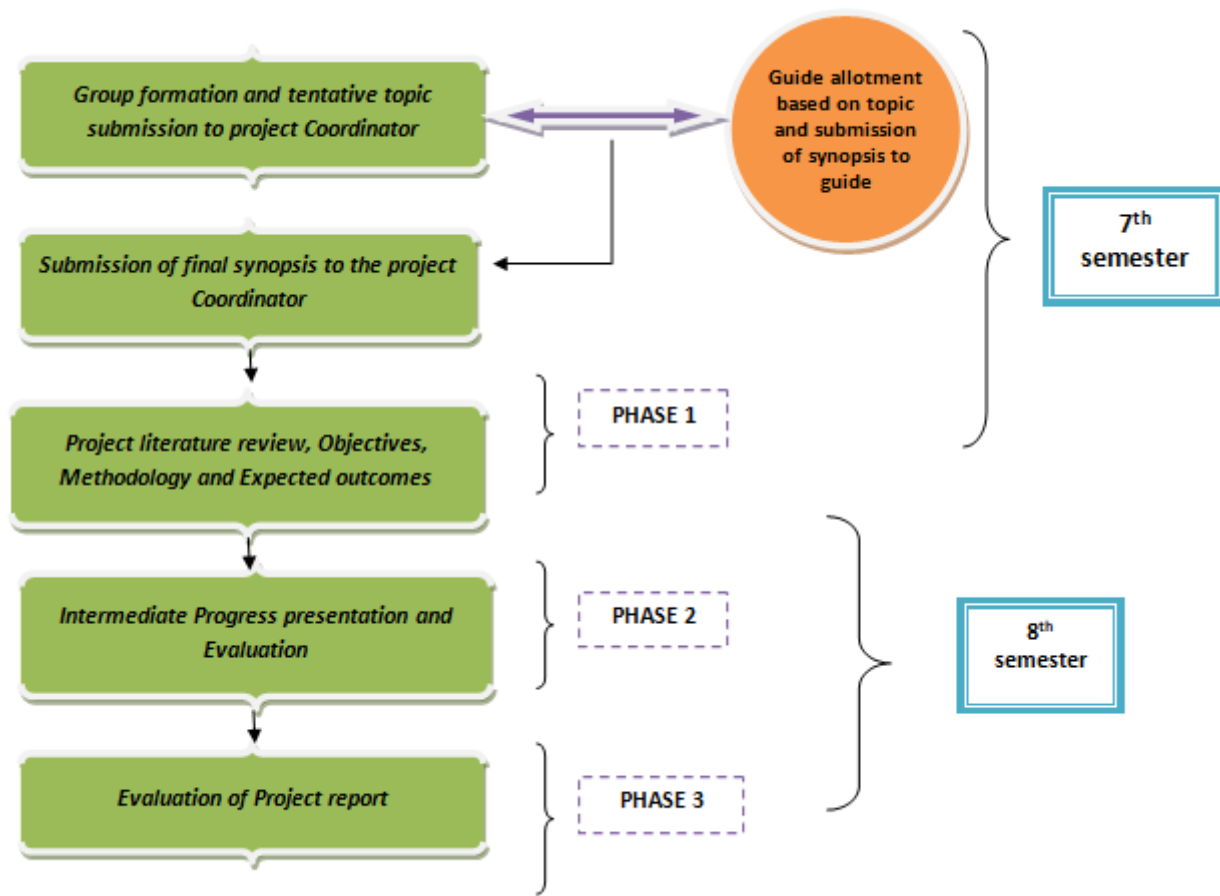


Fig 2.2.3 A

After the allocation of project topics and project guides, the topics are categorized into

- Application Projects
- Projects on materials and products
- Research projects
- Review projects

After categorizing the projects the relevant PO's and PSO's are assigned for each topic.

*Project Details: Academic year 2016-17*

SI. No.	Project Title	Project Guide	Nature of Project
1	Partial Replacement of Sand with Quarry Dust in Concrete	Dr. M N HIREMATH	Review Project
2	A Proposed Design and Drawing of Swimming pool Complex	Mr. SANJAY S J	Application Project

3	Replacement of Cement by Areca nut Husk Ash and Corncob	Mr. SHARATH S K	Review Project
4	Mivan (Construction of G+5) Commercial Shopping Complex	Dr. M N HIREMATH	Research Project
5	Seismic Analysis of Re Framed Multi-storey Building with Different Position of Shear Wall	Ms. POORNIMA D	Review Project
6	Strength Aspects of Basalt Rock Fibre	Mr. NAVEEN KUMAR	Review Project
7	Design and Analysis of G + 4 Green Building	Mr. SUNIL KUMAR R A	Review Project
8	Watershed Delineation using Cartosat Dem	Ms. DIVYA H A	Research Project
9	Case Study for Construction of Rotary Intersection at Bhagath Singh Circle	Mrs. YAGNODBHAVI H M	Application Project
10	Evaluating Effects of Aggregate Ratio on the Performance of Pervious Concrete	Mr. SUNIL KUMAR R A	Research Project
11	Seismic Performance of Frame Structure with and without Infill Walls	Mr. NAVEEN KUMAR	Review Project
12	Determination of Characteristic Strength of Concrete by Replacing Sand with Foundry Sand	Mr. SANJAY S J	Review Project
13	Replacement of Fine Aggregate by M-Sand Slag Sand	Mr. HALESH KUMAR	Review Project
14	Experimental Study on Partial Replacement of Cement with Coconut Husk Ash	Dr. M N HIREMATH	Review Project
15	A Case Study on Evaluation of Road Safety Index for Shimoga District	Mr. SHARATH S K	Application Project
16	Traffic Flow Analysis and Design of Signal for Uncontrolled Intersection Case Study Progress in Krishnappa Circle	Mrs. YAGNODBHAVI H M	Application Project
17	Replacement of Demolished Brick Waste by Coarse Aggregate in Concrete	Mr. SANJAY S J	Review Project
18	Performance Test on STP-PESITM-A Case Study	Mr. RAKESH M K	Review Project

*Project Details: Academic year 2017-2018*

<b>Sl. No.</b>	<b>Project Title</b>	<b>Project Guide</b>	<b>Nature of Project</b>
1	Experimental Investigation of Pervious Concrete for Different Concrete Mix	Mr. Sanjay S.J.	Review Project
2	Replacement of Coarse Aggregate by Recycled Coarse Aggregate for Pavement	Mrs. Yajnodhbavi H.M.	Review Project
3	Experimental and Analytical Investigation on Strength Properties of Concrete by Using Partial Replacement of Coconut Fibre and Micro Silica in Cement	Mr. Sanjay S.J.	Review Project
4	Experimental Investigation on Performance of Engineered Cementitious Composite	Mr. Rakesh M.K.	Research Project
5	Behaviour of Fibre Reinforced Concrete With Different Types of Fibres.	Mrs. Yajnodhbavi H.M.	Review Project
6	Characterization of Fine Aggregate and their Influence on Self Compacting Concrete Mix Design	Mr. Sunil Kumar R.A.	Research Project
7	Flexural Behaviour of RCC Hidden Beam by Using Fem Techniques	Mr. Amshith Kumar H.J.	Review Project

8	Performance of Masonry using Energy Efficient Alternative Masonry Materials	Mr. Rakesh M.K.	Product Development
9	Assesment of Ground Water Quality at Shivamogga Industrial Area And its Vicinity	Mr. Nandan N Shenoy	Application Project
10	Rain Water Harvesting of PESITM Campus	Dr. M.N. Hiremath	Application Project
11	Influence of Elastic Properties of Units and Mortar on Performance of Masonry	Ms. Poornima D.	Research Project
12	Numerical Analysis of L-Shaped Rataining Wall With Geogrid and EPS under Static Condition	Mrs. Pooja Y E	Research Project
13	Study on Effect on Model Footing Resisting on Surface Treated Coir Mat and Coir Fibre	Mr. Halesh Kumar B T	Review Project
14	Experimental Analysis and Stabilization of Clayey Soil in Partial Replacement of Cement In Concrete	Mr. Halesh Kumar B.T.	Review Project

*Project Details: Academic year 2018-2019*

SI. No.	Project Title	Project Guide	Nature of Project
1	Design and Fabrication of Indigenous Low Cost Water Filter Using Activated Carbon Prepared From Low Cost Material.	Dr. M.N. Hiremath	Application Project
2	Experimental Study on Cellular Light Weight Concrete.	Mr. Amshith Kumar	Review Project / Product Development
3	Seismic Analysis of RC Frame Structure With and Without Braces Using ETABS.	Ms. Poornima D	Review Project
4	Monitoring and Assessment of Noise Pollution in Shivamogga City.	Mr. Nandan N Shenoy	Application Project
5	Autoclaved Aerated Concrete Blocks for Masonry Structure.	Mr. Rakesh M.K	Review Project / Product Development
6	Experimental and Analytical Investigation on Nano Silica in Concrete.	Mr. Sanjay S.J	Review Project
7	Experimental Studies on Fibre Reinforced Mortar.	Mr. Amshith Kumar	Review Project
8	Study of Binders In Warm Mix Asphalt using Sasobit Additive.	Mrs. Yagnodbhavi H M	Review Project
9	Performance Evaluation of WTP at Mandli, Shivamogga.	Mr. Nandan N Shenoy	Application Project
10	Planning, Analysis and Design on Single Column Residential Building.	Dr. B.M. Gangadarappa	Review Project
11	Stabilization of Black Cotton Soil by using Areca Nut Husk Ash.	Mrs. Pooja Y.E	Review Project
12	Experimental Investigation on Concrete Using Nano-Silica as a Partial Replacement of Cement	Dr. M.N. Hiremath	Review Project
13	Planning Design and Analysis of Residential Multi-Storied Building.	Dr. B.M. Gangadarappa	Review Project
14	Stabilization of Soil By Utilization of Polypropylene Fibre With and Without Chemical Treatment.	Mr. Sharath S.K	Review Project
15	Analytical & Numerical Studies on CFST Under Axial Compression.	Mr. Sunil Kumar R.A	Review Project



**Project Evaluation Rubric**

<b>Components of Evaluation</b>	<b>Description of Evaluation</b>	<b>Weightage in terms of %</b>	<b>Marks (100)</b>
1. Knowledge Component	a. Feasibility and practicality of the intended study	25%	10
	b. Proposed methodology for the study		15
2. Problem Identification	a. Relevance of the problem in the present context	25%	10
	b. Relevance of literatures studied		10
	c. Defining the objectives		05
3. Team Work	a. Involvement of student in the study & contribution	25%	15
	b. Regularity in discussions with guide and submission of assignments		10
4. Report Writing & Presentation	a. Contents & Format of the report	25%	05
	b. Effectiveness of presentation and Communication of the results of study		15
	c. Paper Publication		05

**2.2.4 Initiative related to industry interaction (15)**

Institute Marks : 10.00

The faculties of the department constantly interact with industries for industrial visit of the students. MOU's are in place with specific emphasis on

- Offering Internship Programs

- Project Workshop for Students
- Student specific training

Following are the details of Industry Initiatives

SL.NO	ORGANISATION DETAILS	AGREEMENT CERTIFICATE NO
1	SHEDWADKAR HOUSING PVT LTD BANGLORE	IN-KA07938150157108R
2	SURESH ENTERPRISES PVT LTD HUBLI	IN-KA07939402008196R
3	COURAGE ENGINEERS SHIVAMOGGA	IN-KA01280625197505R
4	MEDINI A TRAINING CERTIFICATE & ACADEMIC PARTNER FOR AUTO DESK & PTC BANGLORE	IN-KA01274788686461R
5	SEVEN HILLS BUILDERS AND DEVELOPERS DAVANAGERE	IN-KA40410494975239R

## SCOPE OF THE MoU

The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

**Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

**Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

**Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.

**Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of **Civil Engineering**.

**Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

**Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.

**Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

### 2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks : 10.00

CBCS scheme introduced by the university incorporates 4 week internship program for Under Graduate students in the final year. Internship program is useful for the students to gain practical knowledge and understand the application part of Civil Engineering.

Following is the sample list of organizations offered internship programs for the final year students in academic year 2018-19.

Sl. No.	Name of the Organization	No of students	Nature of training
1	Aarshiraj Builders and developers, 2 <sup>nd</sup> Floor, AAS SamudayaBhavana, 4 <sup>th</sup> Cross, RanganathaBhadavane, Gopala, Shivamogga	16	Construction site administration
2	ACCESS Design Solutions Pvt Ltd, # 3792, 13 <sup>th</sup> Cross, Thyagarajanagara, Banashankari, 2 <sup>nd</sup> Stage, Bangalore	1	Structural Design & Detailing
3	Baruni Civil Construction Collaboration with Inner Voice Academy, Ramakrishna Nagara, Mysore	1	Planning and Estimation
4	ADR Contractors, # 104, 80 feet Ring Road, MariyappanaPalya, Bangalore	4	Construction site administration
5	Bruhat Bangalore MahanaarPalike (BBMP), GovindarajaNagara Division, Bengaluru-560040.	11	Construction site administration
6	ShapoorjiPallonji, Real Estate, Bangalore	6	Construction site administration
7	Indresh Associates, Structural Design Consultancy, VinobhaNagara, Shivamogga	10	Construction site administration
8	M/S Apoorva Construction Co, Kanasu, SiddalingeshwaraSadana, 13 <sup>th</sup> Cross, S SPuram, Tumkur	2	Construction site administration
9	M/S AshokaBuildcon Limited, TirupathiHalli, Near New Petrol Bunk, Arasikere, Mysore Road, Hasan	1	Construction site administration
10	M/S Shrinidhi Constructions, Opp. ShubhaMangala, VinobhaNagara, Shivamogga	4	Construction site administration
11	Roads & Buildings Division, Kulgam, Jammu & Kashmir	1	Construction site administration
12	Seven Hills Builders and Developers	5	Construction site administration

13	Sobha Developers, Bangalore	12	Construction site administration
14	Architecture Engineering & Interior Designing, SLV Complex, Jewel Rock Road, Shivamogga	2	Construction site administration

### 3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Total Marks 96.00

#### Define the Program specific outcomes

#### 3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Total Marks 16.00

<b>PSO1</b>	Plan, Analyze, Design, Execute and Maintain cost effective Civil Engineering structures to pursue opportunities for personal and professional growth as well as higher studies
<b>PSO2</b>	Take up Entrepreneurship, Research and Development and demonstrate leadership skills
<b>PSO3</b>	Demonstrate professional integrity and ethical values for sustainable civil society

#### 3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)

Institute Marks : 4.00

**Note : Number of Outcomes for a Course is expected to be around 6.**

<b>Course Name :</b>	<b>C2 02</b>	<b>Course Year :</b>	<b>2016-2017</b>
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Items	2019-20
C2 02.1	Assess and evaluate the stress, strain and strength of the material when subjected to different type of forces.
C2 02.2	Analyze the shear force and bending moment of beams for different loading condition
C2 02.3	Evaluate bending stress in beam and failure loads in column.

C2 02.4	Evaluate the behaviour of member when subjected to torsion and identifying the stored energy in the section.
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<b>Course Name :</b>	<b>C2 11</b>	<b>Course Year :</b>	<b>2016-2017</b>
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<b>Items</b>	<b>2019-20</b>
C2 11.1	Apply the fundamental knowledge of mathematics and science to develop mathematical modelling and compute the parametric values in prototype by analyzing the corresponding model parameters.
C2 11.2	Analyze fluid flow in open channel hydraulics and Design the open channels of various cross sections including economical channel sections.
C2 11.3	Compute Energy dissipation, water surface profiles at different conditions by apply Energy concepts to flow in open channel sections
C2 11.4	Design of turbines and pumps for the given data and understand their operational characteristics under different operating conditions

<b>Course Name :</b>	<b>C3 03</b>	<b>Course Year :</b>	<b>2017-2018</b>
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<b>Items</b>	<b>2019-20</b>
C3 03.1	Plan and execute geotechnical site investigation program for different civil engineering projects.
C3 03.2	Evaluate the stress in soil mass and compute settlement beneath the loaded footings on sand and clayey soils.
C3 03.3	Estimate factor of safety against failure of slopes and to compute lateral earth pressure distribution behind the earth retaining structures.
C3 03.4	Determine bearing capacity of soil and achieve proficiency in proportioning shallow isolated and combined footings for uniform bearing pressure

C3 03.5	Compute the load carrying capacity of single and group of piles
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<b>Course Name :</b>	<b>C3 12</b>	<b>Course Year :</b>	<b>2017-2018</b>
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Items	2019-20
C3 12.1	Estimate average and peak water demand for a community.
C3 12.2	Evaluate available sources of water, quantitatively and qualitatively and make appropriate choice for a community.
C3 12.3	Select and design the different types of unit operations and processes required in water treatment plants.
C3 12.4	Design a comprehensive water treatment plant unit and distribution system to purify and distribute water to the required quality standards.

<b>Course Name :</b>	<b>C4 02</b>	<b>Course Year :</b>	<b>2018-2019</b>
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Items	2019-20
C4 02.1	Analyse, design and draw various RC structures like Footings, retaining walls and water tanks as per relevant codes.
C4 02.2	Design industrial and infrastructural elements like Portal frames and roof truss members with connections.
C4 02.3	Analyse, design and draw details of plate and gantry girder.
C4 02.4	Posses the basic fundamental knowledge in design of RCC and Steel Structures and will have the ability to follow design procedures as per code provisions and skills to arrive at structurally safe RC and Steel members.

<b>Course Name :</b>	<b>C4 10</b>	<b>Course Year :</b>	<b>2018-2019</b>
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C211.4	1	1	2	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.00</b>	<b>1.25</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3 . course name : C303**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	1	1	-	1	-	-	-	-	-	-	-	-
C303.2	2	2	-	-	-	-	-	-	-	-	-	-
C303.3	2	2	-	-	-	-	-	-	-	-	-	-
C303.4	2	2	-	1	-	-	-	-	-	-	-	-
C303.5	2	2	-	1	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.00</b>	<b>1.80</b>	<b>0.00</b>	<b>1.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4 . course name : C312**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	2	3	2	-	-	-	-	-	-	-	-
C312.2	1	1	-	1	-	-	-	-	-	-	-	-
C312.3	2	2	3	1	-	-	-	-	-	-	-	-
C312.4	2	2	3	1	-	-	-	-	-	-	-	-
<b>Average</b>	<b>1.75</b>	<b>1.75</b>	<b>3.00</b>	<b>1.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**5 . course name : C402**



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3 ▾	3 ▾	3 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	- ▾	- ▾
C402.2	2 ▾	2 ▾	3 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	- ▾	- ▾
C402.3	3 ▾	3 ▾	3 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	- ▾	- ▾
C402.4	1 ▾	1 ▾	1 ▾	1 ▾	- ▾	- ▾	- ▾	1 ▾	- ▾	- ▾	- ▾	- ▾
<b>Average</b>	<b>1.25</b>	<b>2.25</b>	<b>2.50</b>	<b>1.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>	<b>0.00</b>	<b>1.00</b>	<b>0.00</b>	<b>0.00</b>

6 . course name : C410

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	2 ▾	2 ▾	2 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C410.2	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C410.3	2 ▾	2 ▾	- ▾	2 ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C410.4	1 ▾	1 ▾	- ▾	1 ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
<b>Average</b>	<b>1.75</b>	<b>1.67</b>	<b>2.00</b>	<b>1.25</b>	<b>0.00</b>	<b>0.00</b>	<b>1.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>

1 . Course Name : C202

Course	PSO1	PSO2	PSO3
C202.1	2 ▾	1 ▾	- ▾
C202.2	1 ▾	2 ▾	- ▾
C202.3	- ▾	2 ▾	1 ▾
C202.4	- ▾	1 ▾	- ▾
<b>Average</b>	<b>1.50</b>	<b>1.25</b>	<b>1.00</b>

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**2 . Course Name : C211**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C211.1	2    ▾	1    ▾	-    ▾
C211.2	2    ▾	2    ▾	1    ▾
C211.3	2    ▾	-    ▾	-    ▾
C211.4	3    ▾	2    ▾	1    ▾
<b>Average</b>	<b>2.25</b>	<b>1.25</b>	<b>1.00</b>

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**3 . Course Name : C303**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C303.1	2    ▾	2    ▾	-    ▾
C303.2	2    ▾	1    ▾	-    ▾
C303.3	2    ▾	1    ▾	2    ▾
C303.4	2    ▾	2    ▾	-    ▾
C303.5	2    ▾	2    ▾	-    ▾
<b>Average</b>	<b>2.00</b>	<b>1.60</b>	<b>2.00</b>

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**4 . Course Name : C312**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C312.1	3    ▾	2    ▾	1    ▾
C312.2	3    ▾	2    ▾	2    ▾

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C312.3	3	▼	1	▼	1	▼
C312.4	3	▼	1	▼	2	▼
<b>Average</b>	<b>3.00</b>		<b>1.50</b>		<b>1.50</b>	

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**5 . Course Name : C402**

Course	PSO1	PSO2	PSO3			
C402.1	3	▼	2	▼	-	▼
C402.2	3	▼	2	▼	-	▼
C402.3	3	▼	2	▼	-	▼
C402.4	3	▼	2	▼	1	▼
<b>Average</b>	<b>3.00</b>		<b>2.00</b>		<b>1.00</b>	

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**6 . Course Name : C410**

Course	PSO1	PSO2	PSO3			
C410.1	3	▼	3	▼	-	▼
C410.2	2	▼	2	▼	-	▼
C410.3	2	▼	1	▼	-	▼
C410.4	1	▼	1	▼	3	▼
<b>Average</b>	<b>2.00</b>		<b>1.75</b>		<b>3.00</b>	

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Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.8	1.6	1.4	1.4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C102	2.4	2.0	1.0	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.0	1.34	1.0	PO4	1.0	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	1.75	1.75	PO3	PO4	2.0	PO6	PO7	PO8	PO9	PO10	PO11	1.0
C105	2.67	2.0	2.67	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106	3.0	3.0	3.0	2.0	2.0	PO6	PO7	PO8	PO9	PO10	PO11	3.0
C107	3.0	2.5	1.5	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C109	1.8	1.6	1.4	1.4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.0
C110	1.6	1.4	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	2.5	2.25	1.0	PO4	PO5	PO6	PO7	1.0	PO9	PO10	PO11	PO12
C112	3.0	2.0	2.0	2.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	3.0
C113	2.0	2.4	2.25	2.34	1.0	PO6	PO7	PO8	PO9	PO10	PO11	1.0
C114	3.0	2.5	1.5	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115	1.8	2.0	PO3	PO4	2.0	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	1.75	1.75	1.5	1.5	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.0
C202	1.75	2.5	3.0	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	1.6	1.6	PO3	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	1.25	1.75	PO3	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205	2.25	1.75	1.5	1.0	PO5	1.0	PO7	PO8	PO9	PO10	PO11	PO12

C206	2.0	1.5	2.0	PO4	PO5	PO6	1.0	PO8	PO9	PO10	PO11	PO12
C207	2.0	1.34	PO3	1.5	PO5	1.0	PO7	2.0	2.0	PO10	PO11	PO12
C208	2.0	2.0	PO3	2.0	PO5	PO6	PO7	PO8	2.0	PO10	PO11	PO12
C209	1.6	1.8	1.4	1.6	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.0
C210	2.0	3.0	PO3	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	2.0	1.25	2.0	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	1.67	1.0	3.0	PO4	PO5	PO6	2.0	PO8	PO9	PO10	PO11	PO12
C213	2.0	1.75	PO3	1.34	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	1.5	1.0	2.0	1.0	2.0	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215	2.0	2.0	PO3	PO4	PO5	PO6	PO7	PO8	2.0	PO10	PO11	PO12
C216	2.34	2.5	2.0	PO4	PO5	1.0	PO7	PO8	2.0	PO10	PO11	PO12
C301	2.0	2.0	2.5	1.0	PO5	1.0	PO7	1.0	PO9	1.0	1.0	1.0
C302	2.0	3.0	PO3	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	2.0	1.8	PO3	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	2.34	1.5	2.0	2.0	1.34	PO6	PO7	PO8	PO9	PO10	PO11	2.0
C305	2.0	2.0	PO3	2.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306	2.0	2.0	2.0	1.25	1.0	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307	2.0	1.0	PO3	2.0	PO5	PO6	PO7	PO8	1.67	PO10	PO11	PO12
C308	2.0	1.34	2.0	PO4	PO5	PO6	PO7	PO8	2.0	PO10	PO11	PO12
C309	2.0	1.0	2.0	PO4	PO5	1.50	PO7	2.0	2.0	1.0	2.5	PO12
C310	1.4	2.2	3.0	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	1.75	2.0	3.0	1.0	PO5	1.0	PO7	PO8	PO9	PO10	2.0	PO12

C312	1.75	1.75	3.0	1.25	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	1.0	1.0	PO3	PO4	3.0	2.0	2.5	PO8	PO9	PO10	PO11	PO12
C314	2.0	3.0	2.5	2.0	2.5	2.0	2.0	PO8	PO9	PO10	PO11	PO12
C315	1.5	2.0	PO3	PO4	PO5	2.0	PO7	PO8	PO9	PO10	PO11	PO12
C316	2.0	2.0	1.25	PO4	2.0	PO6	PO7	1.0	1.0	1.0	1.25	1.0
C317	2.5	2.5	3.0	1.5	2	PO6	PO7	PO8	2.67	3.0	3.0	PO12
C401	1.5	1.75	2.75	1.75	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402	1.25	2.25	2.5	1.0	PO5	PO6	PO7	1.0	PO9	1.0	PO11	PO12
C403	2.0	2.0	1.0	PO4	PO5	2.0	PO7	PO8	PO9	PO10	PO11	PO12
C404	2.25	2.0	3.0	2.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405	2.0	2.0	1.0	PO4	PO5	2.0	PO7	PO8	PO9	PO10	PO11	PO12
C406	1.0	2.0	PO3	2.0	1.0	1.5	PO7	PO8	PO9	PO10	PO11	PO12
C407	2.0	2.0	PO3	2.0	PO5	3.0	PO7	1.0	1.0	PO10	PO11	2.0
C408	2.0	1.0	PO3	PO4	2.0	1.0	PO7	PO8	PO9	PO10	PO11	PO12
C409	3.0	3.0	3.0	3.0	PO5	PO6	PO7	PO8	3.0	3.0	3.0	PO12
C410	1.75	1.67	2.0	1.5	PO5	1.67	PO7	2.0	PO9	PO10	PO11	1.0
C411	2.0	1.75	2.5	1.0	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412	1.6	1.25	2.5	PO4	PO5	1.0	PO7	PO8	PO9	PO10	PO11	PO12
C413	1.25	1.67	3.0	PO4	PO5	1.0	PO7	PO8	PO9	PO10	PO11	PO12
C414	2.0	2.0	2.0	3.0	3.0	PO6	PO7	3.0	3.0	3.0	3.0	3.0
C415	3.0	3.0	3.0	3.0	PO5	PO6	PO7	PO8	3.0	3.0	3.0	PO12
C416	3.0	3.0	3.0	3.0	PO5	PO6	PO7	3.0	PO9	3.0	PO11	3.0

**3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C101	PSO1	PSO2	PSO3
C102	PSO1	PSO2	PSO3
C103	PSO1	PSO2	PSO3
C104	PSO1	PSO2	PSO3
C105	PSO1	PSO2	PSO3
C106	PSO1	PSO2	PSO3
C107	PSO1	PSO2	PSO3
C108	PSO1	PSO2	PSO3
C109	PSO1	PSO2	PSO3
C110	PSO1	PSO2	PSO3
C111	2.0	1.75	1.0
C112	PSO1	PSO2	PSO3
C113	PSO1	PSO2	PSO3
C114	PSO1	PSO2	PSO3
C115	PSO1	PSO2	PSO3
C116	PSO1	PSO2	PSO3
C201	PSO1	PSO2	PSO3
C202	1.5	1.5	1
C203	1.8	2.0	PSO3
C204	2.0	1.5	PSO3

C205	2.0	1.25	1.0
C206	2.0	1.0	PSO3
C207	2.34	2.0	2.0
C208	2.0	1.0	PSO3
C209	PSO1	PSO2	PSO3
C210	3.0	2.0	PSO3
C211	2.25	1.67	1.0
C212	2.0	2.0	1.67
C213	2.0	1.5	1.0
C214	1.75	2.0	PSO3
C215	2.0	2.0	PSO3
C216	2.0	1.34	1.0
C301	2.67	2.0	1.0
C302	2.0	2.0	PSO3
C303	2.0	1.6	2.0
C304	2.0	3.0	1.5
C305	1.75	PSO2	PSO3
C306	1.75	1.75	1.0
C307	2.0	1.67	1.0
C308	2.67	2.0	1.0
C309	2.0	2.67	1.75
C310	2.6	2.0	2.0



C311	2.0	1.25	1.25
C312	3.0	1.5	1.5
C313	1.67	2.0	1.67
C314	1.0	2.0	1.5
C315	2.0	1.0	2.0
C316	2.0	2.25	1.0
C317	2.34	3.0	1.67
C401	3.0	1.5	1.25
C402	2.75	2.0	1.0
C403	2.0	PSO2	1.0
C404	2.75	1.75	PSO3
C405	1.5	PSO2	1.5
C406	1.5	1.0	1.67
C407	2.0	1.5	2.0
C408	2.0	PSO2	1.0
C409	2.5	2.67	1.75
C410	2.0	1.75	3.0
C411	3.0	2.0	PSO3
C412	2.0	2.0	PSO3
C413	2.34	1.0	2.0
C414	2.34	2.25	2.34
C415	2.5	2.67	1.75

C416	2.0	2.0	2.0
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### 3.2 Attainment of Course Outcomes (50)

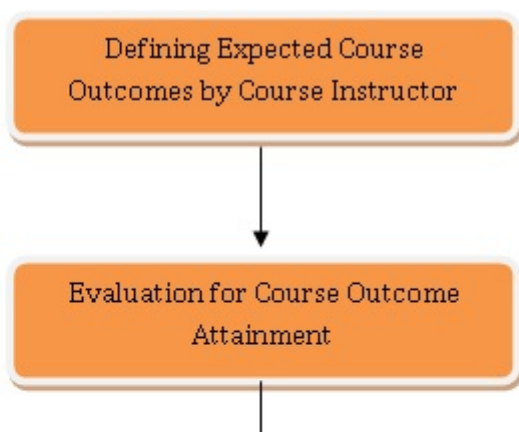
Total Marks 43.00

#### 3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Institute Marks : 8.00

##### *Assessment Process used for Evaluation of Course Outcomes*

- Course Outcome Attainment is calculated based on student performance in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), which constitutes direct assessment
- For total direct attainment 50% attainment of CIE and 50% attainment of SEE are considered. The equal proportioning is adopted as the marks allocation for questions and in turn CO's in SEE is not provided by the university.
- Continuous Internal Evaluation includes mandatory tests as prescribed by the university and the academic activities like quiz, model making, group discussions, assignments.
- Course End Survey (CES) is carried out and used for evaluation of course outcome attainment, which constitutes indirect assessment
- For total attainment 80% direct attainment and 20% indirect attainment is considered. As the direct attainment is a better reflection of actual attainment, a higher proportioning is considered.
- Course Outcome Attainment is calculated based on percentage of students scoring marks above set target.
- Course Instructor sets a target for course attainment, prior to the assessments, based on the nature of course and average university results in the particular course.
- Three different levels of attainment is set for each program (each batch), with respect to which the attainment or non attainment is calculated.
- The course outcome attainments are represented as 1, 2, 3 or 0(Zero) depending on the direct and indirect attainments compared with set targets.
- For 2015-19 Batch, 2015 scheme of study, defined levels are as follows
  - **Level 1 – 55%**
  - **Level 2 – 60%**
  - **Level 3 – 65%**



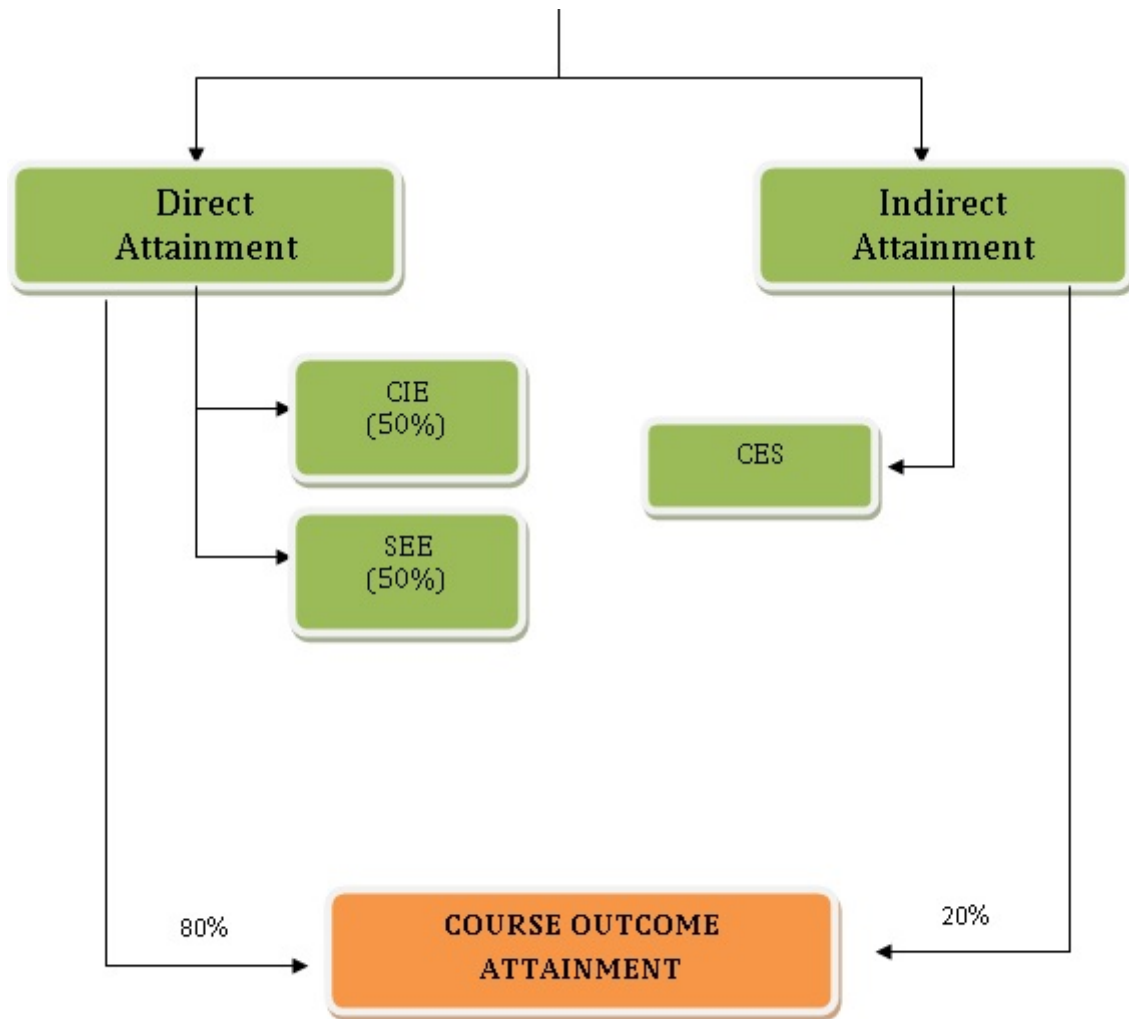


Fig. B 3.2

**3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40)**

Institute Marks : 35.00

Table B 3.2.2 Attainment of Course Outcomes

Sl. No.	Semester	Subject	Subject Code	NBA Code	CO Code	Course Target (%)	CO Attainment for set target	CO Attainment w.r.t. set levels
1	1 <sup>st</sup>	Mathematics -1	15MAT11	C101	CO101.1	55	51	0
					CO101.2		51	0

					CO101.3		50.6	0
					CO101.4		51.2	0
					CO101.5		50.6	0
2		Engineering Chemistry	15CHE12	C102	55	CO102.1	65.6	3
						CO102.2	65	2
						CO102.3	63.6	2
						CO102.4	64	2
						CO102.5	64.2	2
3		C Programming & Data Structures	15PCD13	C103	50	CO103.1	72	3
						CO103.2	69.6	3
						CO103.3	70.4	3
						CO103.4	69.6	3
4		Computer Aided Engineering Drawing	15CED14	C104	60	CO104.1	84	3
						CO104.2	84.6	3
						CO104.3	83.6	3
						CO104.4	83	3
5		Basic Electronics	15ELN15	C105	50	CO105.1	65.2	3
						CO105.2	65.2	3
						CO105.3	64	2
						CO105.4	64	2
						CO105.5	64.2	2
						CO105.6	63.4	2
6		C Programming Lab	15CPL16	C106	60	CO106.1	84.2	3
						CO106.2	83	3
						CO106.3	83.4	3
						CO106.4	82.4	3
						CO106.5	82.4	3
7		Chemistry Lab	15CHEL17	C107	80	CO107.1	92.2	3
						CO107.2	92	3
8		Environmental Studies	15CIV18	C108	NA	100% Passing Percentage		3
								3
								3
								3
9	2 <sup>nd</sup>	Mathematics -2	15MAT21	C109	50	CO109.1	66.6	3
						CO109.2	68.2	3

					CO109.3		68.6	3
					CO109.4		68.2	3
					CO109.5		68.6	3
10	Engineering Physics	15PHY22	C110	55	CO110.1		50.2	0
					CO110.2		49.6	0
					CO110.3		49.2	0
					CO110.4		47.6	0
					CO110.5		48.6	0
11	Elements of Civil Engineering	15CIV23	C111	55	CO111.1		52.8	0
					CO111.2		52	0
					CO111.3		50.8	0
					CO111.4		50.8	0
12	Elements of Mechanical Engineering	15EME24	C112	60	CO112.1		91	3
					CO112.2		90.2	3
					CO112.3		89.4	3
					CO112.4		90	3
					CO112.5		90.4	3
13	Basic Electrical Engineering	15ELE25	C113	55	CO113.1		51.4	0
					CO113.2		50.6	0
					CO113.3		51	0
					CO113.4		50.4	0
					CO113.5		49.4	0
14	Workshop Practice	15WSL26	C114	80	CO114.1		79.2	3
					CO114.2		80.2	3
15	Physics Lab	15PHYL27	C115	80	CO115.1		64.4	2
					CO115.2		63.6	2
					CO115.3		63.6	2
					CO115.4		63.8	2
					CO115.5		64.4	2
16	Constitution of India	15CPH28	C116	NA	CO116.1		100% Passing Percentage	3
					CO116.2			3
					CO116.3			3
					CO116.4			3
					CO116.5			3
17	3 <sup>rd</sup>	Mathematics -3	15MAT31	C201	CO201.1	55	62	2

				CO201.2		61.8	2
				CO201.3		61.4	2
				CO201.4		60.8	2
18	Strength of Materials	15CV32	C202	CO202.1	50	60.2	2
				CO202.2		74.87	3
				CO202.3		64.4	2
				CO202.4		83	3
19	Fluid Mechanics	15CV33	C203	CO203.1	55	61.6	2
				CO203.2		60.8	2
				CO203.3		67.2	3
				CO203.4		61.4	2
				CO203.5		60.2	2
20	Basic Surveying	15CV34	C204	CO204.1	55	57.2	1
				CO204.2		76.6	3
				CO204.3		76.4	3
				CO204.4		75.6	3
21	Engineering Geology	15CV35	C205	CO205.1	60	92.47	3
				CO205.2		90.9	3
				CO205.3		90.94	3
				CO205.4		88.8	3
22	Building Materials & Construction	15CV36	C206	CO206.1	55	82	3
				CO206.2		81.4	3
				CO206.3		51	0
				CO206.4		62	2
23	Basic Material Testing Lab	15CVL37	C207	CO207.1	75	78.2	3
				CO207.2		76.8	3
				CO207.3		76.2	3
24	Basic Survey Practice	15CVL38	C208	CO208.1	80	53.95	0
				CO208.2		51.66	0
				CO208.3		53.8	0
25	4 <sup>th</sup> Mathematics -4	15MAT41	C209	CO209.1	55	68.4	3
				CO209.2		68.2	3
				CO209.3		67	3
				CO209.4		67	3
				CO209.5		66.8	3

26	Analysis of Determinate Structures	15CV42	C210	CO210.1	55	60	1
				CO210.2		58.6	1
				CO210.3		58	1
				CO210.4		56.6	1
				CO210.5		56.6	1
27	Applied Hydraulics	15CV43	C211	CO211.1	55	58.3	1
				CO211.2		58.3	1
				CO211.3		57.24	1
				CO211.4		56.28	1
28	Concrete Technology	15CV44	C212	CO212.1	55	81.24	3
				CO212.2		81.57	3
				CO212.3		79.9	3
29	Basic Geotechnical Engineering	15CV45	C213	CO213.1	55	52.4	0
				CO213.2		53	0
				CO213.3		47.6	0
				CO213.4		50.2	0
30	Advanced Surveying	15CV46	C214	CO214.1	60	55.87	1
				CO214.2		52.2	0
				CO214.3		56.3	1
				CO214.4		56.4	1
31	Fluid Mechanics Lab	15CVL47	C215	CO215.1	75	81.47	3
				CO215.2		80.6	3
32	Engineering Geology Lab	15CVL48	C216	CO216.1	70	45	0
				CO216.2		45.4	0
				CO216.3		41.54	0
33	Design of RC Structural Elements	15CV51	C301	CO301.1	50	64.4	2
				CO301.2		61.74	2
				CO301.3		74.48	3
34	Analysis of Indeterminate Structures	15CV52	C302	CO302.1	55	82	3
				CO302.2		81.6	3
				CO302.3		82	3
				CO302.4		81.9	3
				CO302.5		80.4	3
35	Applied Geotechnical Engineering	15CV53	C303	CO303.1	55	78.4	3

				CO303.2		69.6	3
				CO303.3		73	3
				CO303.4		70.6	3
				CO303.5		69.2	3
36		Computer Aided Building Planning & drawing	15CV54	C304	70	58.94	1
				CO304.1		74.2	3
				CO304.2		73.6	3
				CO304.3		73.6	3
				CO304.4		73.6	3
37		Railways, Harbours, Tunnelling & Airport	15CV552	C305	60	42.8	0
				CO305.1		55.07	1
				CO305.2		63.11	2
				CO305.3		60.8	2
				CO305.4		60.8	2
38		Remote Sensing & GIS	15CV563	C306	55	67.8	3
				CO306.1		64.47	2
				CO306.2		61.5	2
				CO306.3		65.6	2
				CO306.4		65.6	2
39		Geotechnical Engineering Lab	15CVL57	C307	80	91.06	3
				CO307.1		90.8	3
				CO307.2		90.94	3
				CO307.3		90.94	3
40		Concrete & Highway Materials Lab	15CVL58	C308	80	85.42	3
				CO308.1		87.8	3
				CO308.2		87.27	3
				CO308.3		87.27	3
41	6 <sup>th</sup>	Construction Management & Entrepreneurship	15CV61	C309	60	62.83	2
				CO309.1		61.95	2
				CO309.2		60.7	2
				CO309.3		60.7	2
				CO309.4		75.8	3
42		Design of Steel Structural Elements	15CV62	C310	55	81.6	3
				CO310.1		82.8	3
				CO310.2		78.2	3
				CO310.3		67.4	3
				CO310.4		67.4	3
				CO310.5		76.34	3
43		Highway Engineering	15CV63	C311	55	74.07	3
				CO311.1		67.74	3
				CO311.2		58.6	1
				CO311.3		58.6	1
				CO311.4		67.8	3



44		Water Supply & Treatment Engineering	15CV64	C312	CO312.1	55	70.95	3
					CO312.2		69.4	3
					CO312.3		68.1	3
					CO312.4		68	3
45		Solid Waste Management	15CV651	C313	CO313.1	60	79.6	3
					CO313.2		72.8	3
					CO313.3		82.8	3
46		Alternative Building Materials & Technology	15CV653	C314	CO314.1	60	68.06	3
					CO314.2		66.34	3
					CO314.3		68.26	3
					CO314.4		68.34	3
47		Water Resource Management	15CV661	C315	CO315.1	60	73.37	3
					CO315.2		73.5	3
					CO315.3		74.34	3
					CO315.4		75.74	3
48		Software Application Lab	15CVL67	C316	CO316.1	75	80.4	3
					CO316.2		79.94	3
					CO316.3		79.74	3
					CO316.4		80.1	3
49		Extensive Survey Project	15CVL68	C317	CO317.1	75	61.8	2
					CO317.2		61.8	2
					CO317.3		60.4	2
					CO317.4		62.4	2
50	7 <sup>th</sup>	Municipal & Industrial Wastewater Engineering	15CV71	C401	CO401.1	55	80.08	3
					CO401.2		81.27	3
					CO401.3		78.54	3
					CO401.4		69.33	2
51		Design of RCC & Steel Structures	15CV72	C402	CO402.1	55	80.6	3
					CO402.2		82	3
					CO402.3		76.6	3
					CO402.4		87.2	3
52		Hydrology & Irrigation Engineering	15CV73	C403	CO403.1	60	78.75	3
					CO403.2		84.4	3
					CO403.3		85.7	3

				CO403.4		78.2	3
53	Design of Bridges	15CV741	C404	CO404.1	60	77.22	3
				CO404.2		74.67	3
				CO404.3		70.2	3
				CO404.4		73.1	3
54	Urban Transport Planning	15CV751	C405	CO405.1	60	81.2	3
				CO405.2		83.18	3
				CO405.3		74.64	3
				CO405.4		78.1	3
55	Rehabilitation & Retrofitting of Structures	15CV753	C406	CO406.1	65	80	3
				CO406.2		79.07	3
				CO406.3		71.23	3
				CO406.4		79.3	3
56	Environmental Engineering Lab	15CVL76	C407	CO407.1	70	96	3
				CO407.2		94	3
				CO407.3		94	3
				CO407.4		92.6	3
57	Computer Aided Detailing of Structures	15CVL77	C408	CO408.1	70	97.6	3
				CO408.2		97.6	3
58	Project Work	15CVP78	C409	CO409.1	80	98.8	3
				CO409.2		98	3
				CO409.3		98	3
				CO409.4		98	3
59	Quantity Surveying & Contract Management	15CV81	C410	CO410.1	60	74.47	3
				CO410.2		61	2
				CO410.3		59	1
				CO410.4		69.4	3
60	Design of Pre stressed Concrete Elements	15CV82	C411	CO411.1	55	72.18	3
				CO411.2		73.3	3
				CO411.3		73.24	3
				CO411.4		73.9	3
61	Earthquake Engineering	15CV831	C412	CO412.1	60	75.5	3
				CO412.2		66.2	3

				CO412.3		81.4	3
				CO412.4		82.2	3
				CO412.5		77.34	3
62	Pavement Design	15CV833	C413	CO413.1	55	62.84	2
				CO413.2		68.2	3
				CO413.3		71.26	3
				CO413.4		63.95	2
63	Internship	15CV84	C414	CO414.1	80	80.2	3
				CO414.2		79.6	3
				CO414.3		76.2	3
				CO414.4		79	3
				CO414.5		73.4	3
64	Project Work	15CVP85	C415	CO415.1	80	97.6	3
				CO415.2		98	3
				CO415.3		98	3
				CO415.4		98	3
65	Seminar	15CVS86	C416	CO416.1	75	98	3
				CO416.2		90	3
				CO416.3		90	3

### 3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

Total Marks 37.00

#### 3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

Institute Marks : 7.00

### Assessment tools & process used to measure attainment of PO and PSO

- Each Course is expected to contribute towards Program Outcomes, which is mapped for its correlation at the outset.
- Course Instructors in consultation with the subject expert in the department and taking reference of the University syllabus, defines the expected course outcomes in relevance with the correlation to the Program Outcomes.
- After defining the Expected Course Outcomes, each course outcome is again mapped with program outcome for its correlation accurately.
- Using this CO – PO Matrix, achievable program outcomes in form of target for the program may be obtained.
- Based on the course outcomes attained and the CO-PO Matrix, program outcome attainment is calculated for each course.

$$PO \text{ Attainment} = \frac{\text{Achievable PO}}{3} \times \frac{\Sigma(\text{CO Mapping} \times \text{CO Attainment})}{\Sigma \text{CO} - \text{PO Mapping}}$$

- Achievable PO in terms of target and Achieved PO in terms of attainment are compared for evaluation of results.
- Same process is adopted for Program Specific Outcomes. Program Specific Outcomes have been defined at the Department and is as mentioned in 3.1

$$PSO \text{ Attainment} = \frac{\text{Achievable PSO}}{3} \times \frac{\Sigma(\text{CO Mapping} \times \text{CO Attainment})}{\Sigma \text{CO} - \text{PSO Mapping}}$$

### 3.3.2 Provide results of evaluation of PO&PSO (40)

Institute Marks : 30.00

#### PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0.92	0.82	0.72	0.72	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.51
C102	1.55	1.30	0.65	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	0.71	0.96	0.71	PO4	0.70	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	1.47	1.47	PO3	PO4	1.68	PO6	PO7	PO8	PO9	PO10	PO11	0.84

C105	1.72	1.31	1.72	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106	2.5	2.5	1.66	1.66	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.49
C107	2.77	2.31	1.39	0.93	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C109	1.23	1.09	0.96	0.96	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.69
C110	0.79	0.69	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.29	1.16	0.52	PO4	PO5	PO6	PO7	0.53	PO9	PO10	PO11	PO12
C112	2.71	1.82	1.81	1.71	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.71
C113	1.02	1.22	1.14	1.18	0.51	PO6	PO7	PO8	PO9	PO10	PO11	0.51
C114	2.40	2.0	1.2	0.8	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115	1.16	1.28	PO3	PO4	1.28	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	1.08	1.08	0.93	0.93	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.62
C202	1.26	1.76	2.22	0.65	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	1.01	1.0	PO3	0.68	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	0.86	1.29	PO3	0.77	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205	2.05	1.59	1.37	0.89	PO5	0.91	PO7	PO8	PO9	PO10	PO11	PO12
C206	1.39	1.13	1.25	PO4	PO5	PO6	0.83	PO8	PO9	PO10	PO11	PO12
C207	1.56	1.03	PO3	1.15	PO5	0.77	PO7	PO8	PO9	PO10	PO11	PO12
C208	1.06	1.08	PO3	1.08	PO5	PO6	PO7	PO8	1.08	PO10	PO11	PO12
C209	1.08	1.22	0.95	1.08	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.67
C210	1.16	1.74	PO3	0.58	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	1.16	0.72	1.15	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C212	1.35	0.81	2.4	PO4	PO5	PO6	1.63	PO8	PO9	PO10	PO11	PO12
C213	1.02	0.89	PO3	0.68	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	0.83	0.57	1.13	0.57	1.05	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215	1.63	1.63	PO3	PO4	PO5	PO6	PO7	PO8	1.63	PO10	PO11	PO12
C216	1.04	1.11	0.87	PO4	PO5	0.44	PO7	PO8	0.88	PO10	PO11	PO12
C301	1.34	1.37	1.74	0.69	PO5	0.69	PO7	0.67	PO9	0.75	0.75	0.65
C302	1.64	2.45	PO3	0.82	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	1.45	1.29	PO3	0.73	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	1.63	0.96	1.48	1.48	1.0	PO6	PO7	PO8	PO9	PO10	PO11	1.34
C305	1.16	0.86	PO3	1.22	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306	1.3	1.3	1.29	0.82	0.62	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307	1.82	0.91	PO3	1.82	PO5	PO6	PO7	PO8	1.52	PO10	PO11	PO12
C308	1.74	1.17	1.76	PO4	PO5	PO6	PO7	PO8	1.74	PO10	PO11	PO12
C309	1.24	0.62	1.22	PO4	PO5	1.08	PO7	1.52	1.39	0.63	1.55	PO12
C310	1.11	1.72	2.29	0.78	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	1.18	1.27	1.76	0.59	PO5	0.68	PO7	PO8	PO9	PO10	1.36	PO12
C312	1.22	1.21	2.08	0.87	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	0.77	0.80	PO3	PO4	2.19	1.66	2.04	PO8	PO9	PO10	PO11	PO12
C314	1.37	2.05	1.68	1.33	1.69	1.37	1.37	PO8	PO9	PO10	PO11	PO12
C315	1.11	1.48	PO3	PO4	PO5	1.52	PO7	PO8	PO9	PO10	PO11	PO12
C316	1.61	1.61	1.0	PO4	1.61	PO6	PO7	0.81	0.81	0.81	1.01	0.80
C317	1.83	1.82	2.15	1.09	1.47	PO6	PO7	PO8	1.95	2.21	2.21	PO12
C401	1.18	1.35	2.12	1.34	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C402	1.04	1.81	2.02	0.82	PO5	PO6	PO7	0.88	PO9	0.80	PO11	PO12
C403	1.58	1.61	0.79	PO4	PO5	1.72	PO7	PO8	PO9	PO10	PO11	PO12
C404	1.67	1.47	2.18	1.47	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405	1.59	1.62	0.77	PO4	PO5	1.53	PO7	PO8	PO9	PO10	PO11	PO12
C406	0.81	1.54	PO3	1.59	0.81	1.20	PO7	PO8	PO9	PO10	PO11	PO12
C407	1.89	1.89	PO3	1.89	PO5	2.85	PO7	0.95	0.95	PO10	PO11	1.86
C408	1.96	0.98	PO3	PO4	1.96	0.98	PO7	PO8	PO9	PO10	PO11	PO12
C409	2.97	2.97	2.94	2.94	PO5	PO6	PO7	PO8	2.94	2.94	2.94	PO12
C410	1.15	1.13	1.49	0.96	PO5	1.07	PO7	1.29	PO9	PO10	PO11	0.65
C411	1.47	1.28	1.85	0.74	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412	1.22	0.96	1.98	PO4	PO5	0.82	PO7	PO8	PO9	PO10	PO11	PO12
C413	0.83	1.15	2.14	PO4	PO5	0.64	PO7	PO8	PO9	PO10	PO11	PO12
C414	1.59	1.47	1.47	2.21	2.37	PO6	PO7	2.41	2.29	2.39	2.41	2.41
C415	2.93	2.93	2.94	2.94	PO5	PO6	PO7	PO8	2.94	2.94	2.94	PO12
C416	2.94	2.82	2.7	2.7	PO5	PO6	PO7	2.7	PO9	2.7	PO11	2.79

**PO Attainment Level**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.60	1.56	1.69	1.38	1.53	1.37	1.65	1.52	1.84	1.89	1.97	1.54
Direct Attainment	1.46	1.40	1.56	1.19	1.35	1.17	1.47	1.31	1.68	1.80	1.90	1.30
InDirect Attainment	2.15	2.21	2.21	2.15	2.24	2.18	2.36	2.36	2.48	2.24	2.27	2.48

**PSO Attainment**

Course	PSO1	PSO2	PSO3
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C101	PSO1	PSO2	PSO3
C102	PSO1	PSO2	PSO3
C103	PSO1	PSO2	PSO3
C104	PSO1	PSO2	PSO3
C105	PSO1	PSO2	PSO3
C106	PSO1	PSO2	PSO3
C107	PSO1	PSO2	PSO3
C108	PSO1	PSO2	PSO3
C109	PSO1	PSO2	PSO3
C110	PSO1	PSO2	PSO3
C111	1.0	0.87	0.51
C112	PSO1	PSO2	PSO3
C113	PSO1	PSO2	PSO3
C114	PSO1	PSO2	PSO3
C115	PSO1	PSO2	PSO3
C116	PSO1	PSO2	PSO3
C201	PSO1	PSO2	PSO3
C202	0.98	1.05	0.64
C203	1.12	1.20	0.60
C204	1.34	1.14	PSO3
C205	1.82	1.13	0.91
C206	1.38	0.69	PSO3
C207	1.80	1.54	1.52



C208	1.06	PSO2	PSO3
C209	PSO1	PSO2	PSO3
C210	1.74	1.16	PSO3
C211	1.29	0.96	0.57
C212	1.61	1.61	1.34
C213	1.02	0.75	0.49
C214	0.96	1.13	PSO3
C215	1.62	1.62	PSO3
C216	0.88	0.59	0.44
C301	1.8	1.34	0.69
C302	2.45	1.63	PSO3
C303	1.44	1.16	1.46
C304	1.37	1.97	0.74
C305	0.95	PSO2	PSO3
C306	1.14	1.13	0.65
C307	1.82	1.22	0.91
C308	2.32	1.74	0.85
C309	1.24	1.8	1.15
C310	1.99	1.55	1.63
C311	1.34	0.82	0.84
C312	2.07	1.04	1.03
C313	1.33	1.46	1.33
C314	0.68	1.36	1.02

C315	1.47	0.74	1.51
C316	2.4	1.8	0.8
C317	1.69	2.21	1.21
C401	2.32	1.14	0.95
C402	2.23	1.63	0.87
C403	1.64	PSO2	0.86
C404	2.02	1.28	PSO3
C405	1.18	PSO2	1.20
C406	1.15	0.77	1.27
C407	1.88	1.4	1.89
C408	1.95	PSO2	0.98
C409	2.45	2.62	1.72
C410	1.33	1.18	2.08
C411	2.19	1.46	PSO3
C412	1.52	PSO2	PSO3
C413	1.59	0.7	1.32
C414	1.82	1.74	1.83
C415	2.45	2.62	0.71
C416	1.85	1.85	1.88

**PSO Attainment Level**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
CO Attainment	1.79	1.57	1.35
Direct Attainment	1.60	1.35	1.09

InDirect Attainment	2.55	2.45	2.39
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4 STUDENTS' PERFORMANCE (150)

Total Marks 83.58

**Table 4.1**

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2019-20 (CAY)	2018-19 (CAYm1)	2017-18(CAYm2)	2016-17(CAYm3)	2015-16(CAYm4)	2014-15 (CAYm5)	2013-14 (CAYm6)
Sanctioned intake of the program(N)	60	60	60	60	60	60	60
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	30	45	50	54	55	48	65
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	19	21	16	19	21	15
Separate division students, If applicable (N3)	3	3	3	3	3	3	3
Total number of students admitted in the programme(N1 + N2 + N3)	33	67	74	73	77	72	83

**Table 4.2**

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2019-20 (CAY)	33	0	0	0	0
2018-19 (CAYm1)	67	19	0	0	0
2017-18 (CAYm2)	74	33	36	0	0
2016-17 (CAYm3)	73	39	36	35	0
2015-16 (LYG)	77	33	30	28	28
2014-15 (LYGm1)	72	18	23	23	21
2013-14 (LYGm2)	83	38	34	29	24

**Table 4.3**

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2019-20 (CAY)	33	0	0	0	0
2018-19 (CAYm1)	67	42	0	0	0
2017-18 (CAYm2)	74	48	68	0	0
2016-17 (CAYm3)	73	49	58	57	0
2015-16 (LYG)	77	51	60	59	54
2014-15 (LYGm1)	72	34	51	46	38
2013-14 (LYGm2)	83	64	74	66	54

#### 4.1 Enrolment Ratio (20)

Total Marks 14.00

Institute Marks : 14.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2019-20 (CAY)	60	30	50.00
2018-19 (CAYm1)	60	45	75.00
2017-18 (CAYm2)	60	50	83.33

Average [ (ER1 + ER2 + ER3) / 3 ] : 69.44

Assessment : 14.00

#### 4.2 Success Rate in the stipulated period of the program (40)

Total Marks 17.15

##### 4.2.1 Success rate without backlogs in any semester / year of study (25)

Institute Marks : 7.75

Item	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1 (2014-15)	Latest Year of Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	77.00	72.00	83.00
Y Number of students who have graduated without backlogs in the stipulated period	28.00	21.00	24.00
Success Index [ SI = Y / X ]	0.36	0.29	0.29

Average SI [ (SI1 + SI2 + SI3) / 3 ] : 0.31

Assessment [25 \* Average SI] : 7.75

#### 4.2.2 Success rate in stipulated period (15)

Institute Marks : 9.40

Item	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1 (2014-15)	Latest Year of Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	77.00	72.00	83.00
Y Number of students who have graduated in the stipulated period	54.00	38.00	54.00
Success Index [ SI = Y / X ]	0.70	0.53	0.65

Average SI [ ( SI1 + SI2 + SI3) / 3 ]: 0.63

Assessment [15 \* Average SI] : 9.40

**Note** : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

#### 4.3 Academic Performance in Third Year (15)

Total Marks 9.29

Institute Marks : 9.29

Academic Performance	CAYm3 (2016-17)	LYG (2015-16)	LYGm1 (2014-15)
Mean of CGPA or mean percentage of all successful students(X)	6.71	6.69	6.44
Total number of successful students(Y)	57.00	59.00	46.00
Total number of students appeared in the examination(Z)	58.00	60.00	51.00
API [ $X*(Y/Z)$ ]:	6.28	6.58	5.72

Average API [  $(AP1 + AP2 + AP3)/3$  ] : 6.19

Assessment [  $1.5 * \text{AverageAPI}$  ] : 9.29

#### 4.4 Academic Performance in Second Year (15)

Total Marks 8.01

Institute Marks : 8.01

Academic Performance	CAYm2 (2017-18)	CAYm3 (2016-17)	LYG (2015-16)
Mean of CGPA or mean percentage of all successful students(X)	6.27	6.21	5.84
Total number of successful students (Y)	68.00	58.00	60.00
Total number of students appeared in the examination (Z)	72.00	68.00	73.00
API [ $X * (Y/Z)$ ]	5.92	5.30	4.80

Average API [  $(AP1 + AP2 + AP3)/3$  ] : 5.34

Assessment [  $1.5 * \text{AverageAPI}$  ] : 8.01

#### 4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 24.13

Institute Marks : 24.13

<b>Item</b>	<b>LYG (2015-16)</b>	<b>LYGm1 (2014-15)</b>	<b>LYGm2 (2013-14)</b>
Total No of Final Year Students(N)	59.00	46.00	66.00
No of students placed in the companies or government sector(X)	21.00	27.00	34.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	3.00	7.00	6.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	1.00	2.00
x + y + z =	24.00	35.00	42.00
Placement Index [ (X+Y+Z)/N ] :	0.41	0.76	0.64

Average Placement [ (P1 + P2 + P3)/3 ] : 0.60

Assessment [ 40 \* Average Placement ] : 24.13

**Program Name :**

**Assessment Year Name : CAYm1**



S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ABHISHEK A	4PM15CV002	Aditya Concrete Products, Asst site engineer Shivamogga	26/11/2019
2	CHANDAN N	4PM15CV008	Star infratech , Junior site Engineer, Bengaluru	01/08/2019
3	CHARAN C	4PM15CV010	Consultants: Insite Engg Solution	24/10/2019
4	EEDIGARA SACHIN	4PM14CV013	Deutsche Bahn Engineering & Consulting India Pvt Ltd, CAD Engineer, Bangalore	30/09/2019
5	HALESH B M	4PM15CV014	Aditya Concrete Products , Asst site Engineer, Shivamogga.	26/11/2019
6	KIRAN N	4PM15CV018	Bhadra Concrete Products , Asst site Engineer, Shivamogga.	26/11/2019
7	SAIFULLA KHAN	4PM15CV040	Devi Constructions , Kengeri , ,Site Engineer, Bangalore	7/09/2019
8	TASHI NOORBOO	4PM15CV048	INDIAN ARMY-Lieutenant, Ladakh & J &K	03/07/2019
9	VASUDEV R	4PM15CV051	CONSULTANTS- VR Constructions , Mandya	09/12/2019
10	ZEESHAN AHMED	4PM15CV057	DEZINE DISPLAY SOLUTIONS , Site-Incharge Bangalore,	21/11/2019
11	THANUJA N	4PM15CV049	Bhadra Concrete Products , Asst site Engineer, Shivamogga.	26/11/2019
12	MOHAMMED TALHA	4PM15CV059	National Construction , Thirthahalli	08/11/2019
13	NAVYASHREE V	4PM16CV405	Wurfelkuche – Ineriors , Bangalore	10/01/2020
14	MEGHANA S S	4PM15CV022	Bhadra Concrete Products Asst site Engineer, Shivamogga.	26/11/2019
15	NAYANA K S	4PM16CV407	Cauveri Associates	21/01/2020
16	MOHAMMED NOOR M	4PM15CV058	Fab Modula -The Kastel	25/11/2019
17	RAMYA R	4PM15CV036	Adithya Concrete Products, Asst site Engineer, Shivamogga.	26/11/2019
18	SHARATH M	4PM15CV042	Skilite Engineers, Hassan	19/11/2019
19	PRAMOD D	4PM16CV410	PMGSY (On Contract Basis), Shivamogga	17/12/2019
20	SUJAN JARPLA S	4PM16CV417	Maanvi Constructions, Hassan	08/01/2020
21	SURABHI B A	4PM16CV418	AXIS BANK JAYANAGAR 4TH BLOCK , BANGALORE	05/11/2019

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
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1	AMIT	4PM14CV003	Brown Stone Group,, Pune	08/01/2018
2	AMIT GOWDA M C	4PM14CV004	Ramkrishy Infrastructure Pvt Ltd, Pavagada	18/11/2019
3	BHASKAR RAO	4PM14CV010	BKR Services Group, Yadagiri	27/06/2019
4	JEEVAN S H	4PM14CV014	Surya Construction, Shivamogga	21/09/2018
5	MONICA S	4PM14CV031	Government Polytechnic College, Bhadravathi	23/11/2018
6	NIKITHA P N	4PM14CV033	Akruthi Constructions, Kadur	15/03/2019
7	SACHIN G P	4PM14CV038	TG Developers, Bengaluru	09/12/2019
8	SHIVU K G	4PM14CV045	Shivankara Constructions, Thirthahalli	27/12/2018
9	AKHILESH A	4PM15CV400	Shejawadkar housing and Infra Pvt.Ltd., Site Engineer, Bangalore	11/02/2019
10	KIRAN ARADHYA K P	4PM15CV406	XPHENO PVT LTD, Assistant Technical officer, Bengaluru	06/01/2020
11	MANOHAR P	4PM15CV409	Shivankara Constructions, Thirthahalli	15/04/2019
12	MOHAMMAD ISMAIL	4PM15CV410	HK CONSTRUCTION, Engineer, Bangalore	27/03/2019
13	SANJAY K	4PM15CV417	DMS CONSTRUCTION, Site engineer, Bangalore	04/12/2018
14	ARPITHA R	4PM14CV006	Indresh Consultants, Shivamogga	05/09/2018
15	BHAGYALAKSHMI K.G	4PM14CV009	Sri Guru Structural Consultants & Architects, davanagere	21/09/2018
16	KAVYA K.P	4PM14CV017	Harsha Engineering Consultancy, Hosadurga	28/09/2018
17	KIRAN N C	4PM14CV018	RG Design & Consultants, Shivamogga	08/10/2018
18	MADHU G	4PM14CV022	Design Matrix, Davanagere	18/10/2018
19	MANJUNATH M C	4PM14CV025	Sri Guru Structural Consultants & Architects, davanagere	20/11/2018
20	SUPRIYA K M	4PM14CV048	ADR Contractors, Bangalore	10/01/2019
21	VEERESH HIREMATH	4PM14CV050	EPR Contractors, Bangalore	21/01/2019
22	VIDYA K S	4PM14CV051	Design Matrix, Davanagere	30/01/2019
23	ANNI KUMAR	4PM15CV401	Skilite Engineers, Hassan	08/01/2020

24	Mohammed Naveed Adil	4PM15CV411	Puttaswamy Gowda, Class 1 Contractor, Bangalore	14/02/2019
25	MALLIKARJUN M B	4PM15CV408	Maanvi Constructions, Hassan	23/04/2019
26	NAGARAJ H C	4PM15CV412	RG Design & Consultants, Shivamogga	16/09/2019
27	PREETHAM CN	4PM15CV413	Innovative Designs, Hassan	05/11/2019

**Assessment Year Name : CAYm3**

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ANUSHA H S	4PM13CV003	IDBI Bank, Assistant Manager, Haveri	HRD No.4188/REC Assistant Manager
2	DARSHAN B	4PM13CV005	VISHWAS CONSULTANCY, Depute quality manager, Shivamogga	20/08/2017
3	GAGAN U	4PM13CV009	ASTUTE Valuers & consultants Pvt Ltd, Technical officer, Bangalore	12/03/2018
4	JAYANTH C R	4PM13CV013	RBSA Valuation Advisors LLP, Engineer-Fixed Assets Valuation, Bangalore	RVA/BLR/HR/2018-19/1912
5	KEERTHINI Y C	4PM13CV019	Data Collection Infotech India Pvt Ltd ,Management Trainee, Bangalore	01/08/2018
6	NAGARAJ U KAMATH	4PM13CV030	Sigma Consultants, Junior Structural Engineer, Bangalore	09/12/2019
7	NAVEEN KUMAR D	4PM13CV034	T.R RAJAN , Assistant Engineer, Bangalore	03/11/2018
8	PRAMOD I K	4PM13CV036	VIVANSAA, Site Engineer, Bangalore	22/03/2019
9	SANDHYA G	4PM13CV044	JLL Building Operation Pvt Ltd, Helpdesk, Bangalore	12/09/2018
10	SHILPA H	4PM13CV046	Precise Consultants, Junior Engineer (Design), Bangalore.	27/01/2018
11	SIDDESH S	4PM13CV050	TG Developers, Assistant Site Engineer, Bangalore	01/07/2019
12	SOHAN P	4PM13CV051	Bajaj Housing Finance Limited, Transactional Audit manager, Bangalore	IJP/800846
13	SUPRIYA G P	4PM13CV054	Usha constructions , QS Engineer, Bangalore	06/07/2019
14	SYED ZABIULLA	4PM13CV056	Dussel Contract, Site Engineer, Bangalore	DTP-SRIPL-0000 1608

15	VISHAL Y	4PM13CV060	JENN Engineers, Project Engineer, Bangalore	03/08/2019
16	SUMANTH M	4PM13CV061	ZYETA Interiors PVT LTD, Assistant Project Manager, Bangalore	2Y/BLR/2019-17102019
17	BHARGAVI S P	4PM13CV062	EI Technologies Pvt. Ltd, Trainee Engineer, Bangalore	EIT-2018G-HRD-OFL-A033
18	GULLU FATHIMA	4PM13CV063	Shejewadkar housing and Infra PVT LTD, Quantity Surveyor Engineer, Bangalore.	SHIPL/LHRD/12/2017-2018
19	SHABAZ AHMED	4PM13CV064	Extramarks Education India Private Limited, Business Development Executive, Bangalore	19/09/2019
20	GEETHA L B	4PM14CV405	KRIDL, Division-2 Davanagere, Assistant Engineer, Davanagere.	14/09/2017
21	KARTHIK A C	4PM14CV406	NIKETAN Construction , Site Engineer , Bangalore	23/10/2018
22	MANOJ KUMAR K H	4PM14CV408	MW High Tech Projects India Pvt. Ltd, Site Engineer, Tumkur	29/01/2018
23	AJAY P SAKRE	4PM13CV002	EPR COntractors, Bangalore	09/09/2017
24	DILIPKUMAR R	4PM13CV007	ADR Contractors, Bangalore	21/09/2017
25	RAJAPOOH J N	4PM13CV012	Puttaswamy Gowda, Class 1 Contractor, Bangalore	16/10/2017
26	MANOJ G	4PM13CV025	Innovative Designs, Hassan	27/11/2017
27	MITHUN H K	4PM13CV026	Akruthi Consultants, Kadur	16/11/2017
28	NANDAN R	4PM13CV031	Skilite Engineers, Hassan	20/11/2019
29	PRANEETHA B NAIK	4PM13CV037	ADR Contractors, Bangalore	23/01/2018
30	SHREENIVASA S U	4PM13CV049	E Panduranga, Class 1 Contractor, PWD & BBMP, Bangalore	10/10/2018
31	VARUN M	4PM13CV057	Scorpion Consultants and Designners, Hassan	15/02/2019
32	SADIQ AHAMED	4PM13CV065	E Panduranga, Class 1 Contractor, PWD & BBMP, Bangalore	12/03/2019
33	ADARSHA M G	4PM14CV401	Innovative Designs, Hassan	21/02/2019
34	MAMATHA B J	4PM13CV023	Sajjan Associates, Associate Engineer, Shivamogga	CAT-1/VOL-1/61/2007-08

**4.6 Professional Activities (20)**

Total Marks 11.00

**4.6.1 Professional societies/ chapters and organizing engineering events (5)**

Institute Marks : 3.00

Following is the membership details of faculty in professional bodies.

SI No	Name of the Faculty	Membership
1	Dr. M N Hiremath	ISTE Member MIE Member
2	Mr. Amshith Kumar M J	ISTE Member
3	Mrs. Yagnodhbhavi H M	IRC Member

Following are the details of technical / engineering events organized by the Department of Civil Engineering

<b>CAY (2019-2020)</b>			
SI. No	EVENT DETAILS – WORK SHOPS/ TECHNICAL TALKS/CONFERENCES/INDUSTRIAL TRIP	Resource person / Coordinator	DATE
1	Technical interaction on the occasion of Engineers day	Mr. Ajay Kumar Sharma, Approved Valuator and Chartered Engineer, Shimoga	15-09-2019
2	Technical Fest " Pravarthana 2k19" Inter Collegiate Technical event for Civil Engineering Students	Mr. Sanjay S.J, Asst. Professor, Dept. Of Civil Engg. PESITM	24-10-2019
3	Visit to Sewage Treatment Plant , PESITM, Shivamogga	Prof. Nandan N Shenoy, Asso. Professor, Dept. Of Civil Engg. PESITM	31-10-2019
4	One day hands on Training on "SW FEA 2D FRAME"	Prof. Sunil Kumar R A , Asst. Professor, Dept. Of Civil Engg. PESITM	12-11-2019
5	Technical talk on "Electrical Resistivity Meter"	Dr. Laxman, Senior Geophysicist, Geological Survey of India , Hyderabad	25-11-2019

6	One day hands on Training on “Gravity Meter , Magneto Meter and Resistivity Meter”	Dr. R. Rajiv Singh, Sri. Adithya Raj and Sri. Suresh. Geological Survey of India , Hyderabad	25-11-2019
<b>CAY m1 (2018-2019)</b>			
<b>Sl. No</b>	<b>EVENT DETAILS – WORK SHOPS/ TECHNICAL TALKS/CONFERENCES/INDUSTRIAL TRIP</b>	<b>Resource person / Coordinator</b>	<b>DATE</b>
1	Technical Talk on “Dynamic Analysis for Foundation subjected to Vibration”,	Prof H C M Swamy, Associate Professor, Alva’s Institute of Engineering& Technology, Moodabidri	14-11-2018
2	Technical Talk on “The Limit of Limits”	Prof C M Ravi Kumar, Assistant Professor, UBDT College of Engineering& Technology, Davanagere	17-11-2018
3	One day workshop on “Concrete Mix Designs”	Er.Shashiraj, Technical officer, Ultra tech cement Ltd.	11-03-2019
4	Technical trip to Sharavathi Hydro Electric Power generating Station and Linganamakki dam, Sagara, Shivamogga.	Coordinators- Mrs. Yajnodbhavi H. M. Mr. Sunil Kumar R. A. Ms. Divya H. A. Mrs. Pooja Y. E.	23-03-2019
5	Industrial visit to Bhadra and Aditya Concrete products at Machenahalli, Bhadravathi	Coordinators- Mr. Sunil Kumar R. A. Mr. Amshith Kumar M. J. Mrs. Pooja Y. E.	13-04-2019
6	National Conference on Advancement and Innovations in Civil Engineering NCAICE-2019, PESITM, Shivamogga.	Coordinator- Prof. Nandan N Shenoy	16-05-2019
<b>CAY m2 (2017-2018)</b>			

Sl. No	EVENT DETAILS – WORK SHOPS/ TECHNICAL TALKS/CONFERENCES/INDUSTRIAL TRIP	Resource person / Coordinator	DATE
1	Hands on training on Total Station	Mr. Sunil Kumar R A, PESTIM, Shivamogga	5/01/2018 to 6/01/2018
2	Industry-Institute Interaction	Mr. Pradeep Kumar, CEO, M/S Medhini School of Design	17-01-2018
3	Software Training -Revit Architecture - Use and application	Mr. Pradeep Kumar, CEO, Medhini School of Design	M/S 23/01/2018 to 28/01/2018
4	Demonstration on Rain water harvesting	Mr. Anthony DSouza, M/S Farm Land, Bangalore	22/04//2018
5	Hands on training on CYPE	Mr. Amarnath, M/S FE Design, Bangalore	16-04-2018
6	Technical Talk on Tunnel Engineering	Dr. Shachindra Bhat, Director-Projects, SNC Pvt. Ltd., Bangalore	18-05-2018
7	Technical talk on importance of software	Mr. Shivakumar, Proprietor, Ms. Alakhya, Senior Trainer, CADD Center	19-05-2018
8	Industry Institute Interaction and recruitment	Mr. Pradeep Kumar, CEO, M/S Medhini School of Design, Bangalore	21-05-2018
9	Industry Institute Interaction and recruitment	M/S Shejawadhkar Housing and Infra Pvt. Ltd., Bangalore	21-05-2018

**4.6.2 Publication of technical magazines, newsletters, etc. (5)**

Institute Marks : 3.00

Departmental news letter is published every semester and circulated among stakeholders. Following is the sample newsletter of Department of Civil Engineering.

Year	News Letter
2017-2018	Vol-1 Issue1, Vol-1 Issue2
2018-2019	Vol-2 Issue1, Vol-2 Issue2
2019-2020	Yet to be published



Aug-17-Jan-18

NEWSLETTER VOLUME 1 ISSUE 1

**CHIEF PATRONS:**



**Dr. M.R. Dorewary**  
Chairman,  
PES Trust (R), Shivamogga



**Sr. B.Y. Kishorendu**  
Managing Trustee,  
PES Trust (R), Shivamogga

**PATRONS:**

**Sr. B.Y. Hrudu**  
Trustee,  
PES Trust (R), Shivamogga

**Sr. Aruna Devi S.F**  
Joint Secretary,  
PES Trust (R), Shivamogga

**Sr. Uma Devi S.F**  
Governing Council member,  
PES Trust (R), Shivamogga

**Dr. Nagajala R**  
Chief Coordinator Administration,  
PES Trust (R), Shivamogga

**Dr. Chaitanya Kumar M.V**  
Principal,  
PESTM, Shivamogga

**Editorial Board:**

My hearty welcome to the first issue volume -1 of our department Newsletter August 2017. I am indeed very happy and proud in bringing this newsletter about the latest developments and programs in the department. Newsletter acts as a communication channel among alumni, faculty, students and experts in the field of Civil Engineering.



**Dr. M.N. Hrudu**

We express my profound sense of gratitude to the Management, Principal for their continuous encouragement and support extended for the release of this "Newsletter"

**Department at a Glance:**

The department of Civil engineering was started in the year 2013. The department has highly qualified faculty with good blend of experience from both academics and industry. The department has well equipped laboratories and well established library. Within a span of 4 years, the department has reached "Center of Excellence" by attaining good academic results, conducting technical talks, conferences, workshops, FDPs, Industry interactions at state and national levels.

**Courses offered:**

**UG Programme : B.E (4 Years Course) (Full Time)**



<b>INSIDE :</b>	Faculty Profiles	2	<del>Separator/Dividers</del>	6
	PES Force	3	Photo Gallery	7
	Department Infrastructure	4	Vision & Mission	8
	Department Activities	5		

**4.6.3 Participation in inter-institute events by students of the program of study (10)**

Institute Marks : 5.00

Following are the details of student participation in Conference / Paper Presentations

SI No	Author Name	Paper Title	Conference Title	National/International	Place
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1	Ms. AyeeshaRubina Mr. Ilyas Khan Ms. Karishma N A Mr. Subramanya M N	Design and Analysis of G+4 Building with special reference to energy efficient materials	Research in Science, Engineering and Management	National Conference	20 <sup>th</sup> May 2017 Shivamogga
2	Ms. Supriya G P	Introduction of rotary intersection at Bhagath Singh circle Vinobanagara Shivamogga	Research in Science, Engineering and Management	National Conference	20 <sup>th</sup> May 2017 Shivamogga
3	MrLikhith Y MrSadiqAhamed	Experimental Investigation on Strength properties of concrete by Partial Replacement of Foundry Sand in Fine aggregate.	Research in Science, Engineering and Management	National Conference	20 <sup>th</sup> May 2017 Shivamogga
4	Ms. Bhagyalakshmi K G Mr. KiranAradhya Mr. Raghavendra S	Influence of fine aggregate on Self Compacting concrete Mix design	Advanced Research in Science, Engineering and Management	National Conference	26 <sup>th</sup> May 2018 Shivamogga
5	Ms. Nayana K S Ms. Sindhu H J	Analytical studies on Concrete filled steel tubes under axial compression	Advancement and Innovations in Civil Engineering	National Conference	16 <sup>th</sup> May 2019 Shivamogga

Following are the details of participation of students in inter

college technical and sports events

Sl. No.	Event Details	No. of Participants	Remarks
1	19 <sup>th</sup> VTU Inter Collegiate Athletic Meet 2016-17 held at Dr. Thimmaiah Institute of Technology, Kolar Gold Fields by VTU, 15 <sup>th</sup> -18 <sup>th</sup> , Nov 2016	1	Mr. Mohammed Talha participated in the event
2	Inter Collegiate Zonal Tournament organized by VTU at SIT, Tumukur ,20 <sup>th</sup> -21 <sup>st</sup> , March 2017	1	Mr. Mohammed Talha secured runners-up in Football
3	Inter Collegiate Zonal Tournament organized by VTU at SIT, Tumukur ,20 <sup>th</sup> -21 <sup>st</sup> , April 2017	1	Mr. Mohammed Talha secured Winners in Football
4	Shivamogga LIONS in KPL organized by KSCA, 2017	1	Mr. Koushik A. N. represented the team

5	Shivamogga LIONS in KPL organized by KSCA, 2018	1	Mr. Koushik A. N. represented the team
6	TANTRAGYAAN-2018, A National Level Technical Symposium, organized by JSS Science and Technological University, Mysore, 9 <sup>th</sup> -10 <sup>th</sup> April 2018	12	4 <sup>th</sup> Semester Students participated in the event
7	19 <sup>th</sup> VTU Inter Collegiate Athletic Meet 2017-18 organized by Department of Physical Education & Sports, 3 <sup>RD</sup> -6 <sup>th</sup> , Nov 2018	4	
8	TECHNIE'19, National level technical fest organized by Jain Institute of Technology, Davanagere, 15th -16th March 2019	8	Mr. Mithun K. M. & Mr. Vinod Pushpagiri Secured 1st place in CADD Event
9	Inter Collegiate Zonal Tournament organized by VTU at SIT, Tumukur ,22nd -23rd , March 2019	1	Mohammed Talha secured runners-up in Football
10	TANTRAGYAAN-2019, A National Level Technical Symposium, organized by JSS Science and Technological University, Mysore, 25th -26th March 2019	20	6 <sup>th</sup> Semester & 8 <sup>th</sup> Semester Students Participated in the event
11	20th VTU Youth Festival "INSIGNIA" held at SDM College of Engineering & Technology, Dharawad , 6 <sup>th</sup> - 9 <sup>th</sup> , Nov 2019	1	Mr. Niranjana represented Institution in Power Lifting

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 114.09

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial of Jo
Dr. M. N. Hiremath	ADGPH0538P	ME/M. Tech and PhD	21/01/2017	Environmental Engineering	8	2		Professor	02/02/2017	27/01
Dr. Nandan N. Shenoy	AGVPN8960H	ME/M. Tech and PhD	08/02/2020	Environmental Engineering	4			Associate Professor	01/10/2019	17/01
Mr. Sharath S. K.	CVWPS6486B	M.E/M.Tech	05/05/2016	Transportation Engineering				Assistant Professor		10/01
Mr. Sunil Kumar R. A.	FBIPS1139A	M.E/M.Tech	05/05/2016	Industrial Structures				Assistant Professor		17/01
Mr. Sanjay S. J.	FCIPS0602B	M.E/M.Tech	21/01/2017	CAD Structures	11			Assistant Professor		06/01
Mr. Rakesh M. K.	APUPR1993L	M.E/M.Tech	05/05/2016	Construction Technology	1			Assistant Professor		13/01
Mr. Amshith Kumar M. J.	BCIPA5561R	M.E/M.Tech	05/05/2016	Structural Engineering	2			Assistant Professor		31/01
Mr. Sujith K.	GUSPS6327G	M.E/M.Tech	08/06/2019	Construction Technology				Assistant Professor		11/01
Ms. Poornima D.	CJXPP9270K	M.E/M.Tech	21/01/2017	CAD Structures	3			Assistant Professor		01/01
Dr. B. M. Gangadharappa	ADOPG6338E	ME/M. Tech and PhD	09/03/2011	Industrial Structures				Professor	01/02/2018	01/01
Mr. Halesh Kumar B. T.	AGDPH6048L	M.E/M.Tech	09/05/2015	Geotechnical Engineering				Assistant Professor		18/01

Ms. Divya H. A.	CBUPD9926R	M.E/M.Tech	18/06/2015	Applied Geology				Assistant Professor		01/01/2015
Dr. B. M. Gangadharappa	ADOPG6338E	ME/M. Tech and PhD	09/03/2011	Industrial Structure	19	5	1	Professor	10/05/2019	10/05/2019

### 5.1 Student-Faculty Ratio (20)

Total Marks 10.00

Institute Marks : 10.00

## UG

No. of UG Programs in the Department

Civil Engineering						
Year of Study	CAY		CAYm1		CAYm2	
	(2019-20)		(2018-19)		(2017-18)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	60	19	60	22	60	15
3rd Year	60	21	60	13	60	18
4th Year	60	12	60	18	60	17
<b>Sub-Total</b>	<b>180</b>	<b>52</b>	<b>180</b>	<b>53</b>	<b>180</b>	<b>50</b>
<b>Total</b>	<b>232</b>		<b>233</b>		<b>230</b>	
Grand Total	<input type="text" value="232"/>		<input type="text" value="233"/>		<input type="text" value="230"/>	

## PG

No. of PG Programs in the Department

<b>Computer Science and Engineering</b>			
<b>Year of Study</b>	<b>CAY(2019-20)</b>	<b>CAYm1(2018-19)</b>	<b>CAYm2 (2017-18)</b>
	<b>Sanction Intake</b>	<b>Sanction Intake</b>	<b>Sanction Intake</b>
1st Year	0	0	24
2nd Year	0	24	24
<b>Total</b>	<b>0</b>	<b>24</b>	<b>48</b>
<b>Digital Electronics</b>			
<b>Year of Study</b>	<b>CAY(2019-20)</b>	<b>CAYm1(2018-19)</b>	<b>CAYm2 (2017-18)</b>
	<b>Sanction Intake</b>	<b>Sanction Intake</b>	<b>Sanction Intake</b>
1st Year	0	0	24
2nd Year	0	24	24
<b>Total</b>	<b>0</b>	<b>24</b>	<b>48</b>
<b>Master of Business Administration</b>			
<b>Year of Study</b>	<b>CAY(2019-20)</b>	<b>CAYm1(2018-19)</b>	<b>CAYm2 (2017-18)</b>
	<b>Sanction Intake</b>	<b>Sanction Intake</b>	<b>Sanction Intake</b>
1st Year	60	60	60
2nd Year	60	60	60
<b>Total</b>	<b>120</b>	<b>120</b>	<b>120</b>
<b>Grand Total</b>	120	168	216

## SFR

No. of UG Programs in the Department

No. of PG Programs in the Department

Description	CAY(2019-20)	CAYm1 (2018-19)	CAYm2 (2017-18)
Total No. of Students in the Department(S)	232 <b>Sum total of all (UG+PG) students</b>	233 <b>Sum total of all (UG+PG) students</b>	230 <b>Sum total of all (UG+PG) students</b>
No. of Faculty in the Department(F)	10 <b>F1</b>	10 <b>F2</b>	10 <b>F3</b>
Student Faculty Ratio(SFR)	23.20 <b>SFR1=S1/F1</b>	23.30 <b>SFR2=S2/F2</b>	23.00 <b>SFR3=S3/F3</b>
Average SFR	23.17 <b>SFR=(SFR1+SFR2+SFR3)/3</b>		
<b>F=Total Number of Faculty Members in the Department (excluding first year faculty)</b>			

**Note:** 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre.

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2019-20)	9	1
CAYm1(2018-19)	10	0
CAYm2(2017-18)	10	0

Average SFR for three assessment years : 23.17

Assessment SFR : 10

**5.2 Faculty Cadre Proportion (25)**

Total Marks 18.00

Institute Marks : 18.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2019-20)	1.00	1.00	2.00	0.00	7.00	8.00
CAYm1(2018-19)	1.00	2.00	2.00	0.00	7.00	8.00
CAYm2(2017-18)	1.00	1.00	2.00	0.00	7.00	9.00
Average Numbers	1.00	1.33	2.00	0.00	7.00	8.33

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) \* 0.6] + [ (AF3 / RF3) \* 0.4] ] \* 12.5 : 18.00

**5.3 Faculty Qualification (25)**

Total Marks 11.36

Institute Marks : 11.36

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F]
2019-20(CAY)	2	8	11.00	11.82
2018-19(CAYm1)	2	8	11.00	11.82
2017-18(CAYm2)	1	9	11.00	10.45

Average Assessment : 11.36

**5.4 Faculty Retention (25)**

Total Marks 20.00

Institute Marks : 20.00

<b>Description</b>	<b>2018-19</b>	<b>2019-20</b>
No of Faculty Retained	9	8
Total No of Faculty	10	10
% of Faculty Retained	90	80

Average : 85.00

Assessment Marks : 20.00

### **5.5 Innovations by the Faculty in Teaching and Learning (20)**

Total Marks 10.00

Institute Marks : 10.00

Use of ICT tools based on relevance of topic in the courses has been adopted by respective course instructors. The ICT Tools includes, the presentations prepared course instructors and the video by course experts using NPTEL Courses.

For Continuous internal evaluation, apart for periodic tests conducted, the students are evaluated based on the skills in terms of model making, group discussions, demonstration of experiments for theory courses.

Industrial visits are also used as a tool for better teaching-learning process.

### **5.6 Faculty as participants in Faculty development/training activities/STTPs (15)**

Total Marks 12.73

Institute Marks : 12.73



Name of the faculty	Max 5 Per Faculty		
	2018-19 (CAYm1)	2017-18 (CAYm2)	2016-17 (CAYm3)
Mrs. Yajnodbhavi H. M.	5.00	5.00	0.00
Mr. Sunil Kumar R. A.	5.00	5.00	0.00
Ms. Pooja Y. E.	5.00	5.00	0.00
Mr. Sanjay S. J.	5.00	5.00	0.00
Mr. Rakesh M. K.	0.00	5.00	0.00
Mr. Sharath S. K.	0.00	5.00	0.00
Ms. Divya H. A.	0.00	5.00	0.00
Dr. M. N. Hiremath	0.00	5.00	0.00
Dr. B. M. Gangadharappa	0.00	3.00	0.00
Mr. Amshith Kumar M. J.	3.00	3.00	5.00
Sum	23.00	46.00	5.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	11.60	11.65	11.50
Assessment [ $3 * (\text{Sum} / 0.5\text{RF})$ ]	11.90	23.69	2.61

Average assessment over 3 years: 12.73

5.7 Research and Development (30)

Total Marks 12.00

5.7.1 Academic Research (10)

Institute Marks : 7.00

Name of the Faculty	Details of Research Paper / Journal Publication	Publication citation
Mrs. Yajnodbhavi	Replacement of Coarse aggregate by recycled aggregates for pavement	National Seminar and Exhibition on Construction and Demolition Waste Management-UrbanACE-Aug 2019
Ms. Pooja Y E.	Replacement of Coarse aggregate by recycled aggregates for pavement	National Seminar and Exhibition on Construction and Demolition Waste Management-UrbanACE-Aug 2019
Mr. Sanjay S. J.	Replacement of Coarse aggregate by recycled aggregates for pavement	National Seminar and Exhibition on Construction and Demolition Waste Management-UrbanACE-Aug 2019
Mrs. Yajnodbhavi H M	Academic Quality and Excellence	National Conference on "Higher Education in India: Challenges and Opportunities". Jointly organized by PES Institute of Technology & Management & PES institute of Advanced Management Studies". Nov 2019.
Mr. Rakesh M.K.	Academic Quality and Excellence	National Conference on "Higher Education in India: Challenges and Opportunities". Jointly organized by PES Institute of Technology & Management & PES institute of Advanced Management Studies". Nov 2019.
Ms. Pooja Y E.	Academic Quality and Excellence	National Conference on "Higher Education in India: Challenges and Opportunities". Jointly organized by PES Institute of Technology & Management & PES institute of Advanced Management Studies". Nov 2019.
Ms. Pooja Y E.	Numerical Analysis of L-shaped Retaining Wall with Compressible Expanded Polystrene Under Static and Dynamic Condition	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 06   June -2018 www.irjet.net p-ISSN: 2395-0072
Mr. Amshith Kumar M.J.	Performance of Strength Aspect of Basalt Fibre Reinforced Concrete	International Journal of Science and Engineering, Vol 7, Issue 4, May 2018
Mr. Sanjay S. J.	Study on Effect of Different Sizes of Footing Resting on Treated Coir Mat	International Research Journal of Engineering Technology, Vol 4, Issue 2, May 2018
Mr. Nandan N Shenoy	Calibration of Inclined Rectangular Weir with a New Approach	International Journal of science, Environment and Technology, Vol 7 (2), pp. 451-463
Mr. Nandan N Shenoy	Flow Modelling of Inclined Trapezoidal Weir with a New Approach	International Journal of science, Environment and Technology, Vol 7 (3), pp. 823- 834

Mr. Nandan N Shenoy	Generalised Head-Discharge-Inclination Relationship for Flow through Inclined Triangular Weir with New Approach	International Journal of science, Environment and Technology, Vol 7 (3), pp. 978- 991
Mr. Amshith Kumar M.J.	Flow Modelling of inclined Inward Trapezoidal Weir with a New Approach	International Journal of science, Environment and Technology, Vol 7 (3), Pp 1-12
Mr. Amshith Kumar M.J.	Reduction of Self weight in framed structure	Nationaml Conference on Advance trends in Civil Engineering and Sustainable development-26 <sup>th</sup> and 27 <sup>th</sup> Feb 2016.ISBN 978-93-5258-252-5
Mr. Amshith Kumar M.J.	Performsnce of strength aspects of Basalt Fibre reinforced Concrete	International Journal of Science and Environmental Technology Vol 7 No.4 2018,1186-1193
Dr. M. N. Hiremath	Replacement of Coarse aggregates by demolished brick waste in concrete	IJSTE, Volume 4, Issue 2, August 2017, 31-36
Dr. M. N. Hiremath	Prevalence of dental Fluorosis among residents of nine villages in and around mundaragi of Gadag district in Karnataka, India	M.N.Hiremath et al./ Elixir Pollution 50 (2012) 10410-10413,ISSN:2229-712X
Dr. M. N. Hiremath	Assessment of groundwater quality in nine villages of Mundaragi Taluka in Gadag District of Karnataka	M.N.Hiremath et al./ Elixir Pollution 46 (2012) 8432-8435
Dr. M. N. Hiremath	Preparation and Characterization of Granular Activated Carbon from Acacia Nilotica Stalk by KOH Activation	ISSN: 2319-5967 ISO 9001:2008 Certified International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 3, Issue 6, November 2014 201
Dr. M. N. Hiremath	Batch Adsorption of Fluoride Using Low Cost Adsorbents Prepared From Corncob and Acacia Nilotica Stalk by KOH Activation	ISSN: 2319-5967 ISO 9001:2008 Certified International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 3, Issue 6, November 2014
Dr. M. N. Hiremath	Preparation and Characterization of Granular Activated Carbon from Corn Cob by KOH Activation	Hiremath et al. Int. J. Res. Chem. Environ. Vol.2 Issue 3 July 2012(84-87) International Journal of Research in Chemistry and Environment Vol. 2 Issue 3 July 2012(84-87) ISSN 2248-9649
Dr. M. N. Hiremath	Study of Dairy Wastewater Treatment Using Monopolar Series System of Electrocoagulation Process with Aluminium Electrodes	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 04 Issue: 09   Sep -2017 www.irjet.net p-ISSN: 2395-0072
Mr. Sanjay S.J.	Replacement of Coarse aggregates by demolished brick waste in concrete	IJSTE, Volume 4, Issue 2, August 2017, 31-36

Mr. Sanjay S.J.	Finite Element Modeling of Rectangular Funicular Shell Using SAP2000	IJESET, Volume 9, Issue 5, June 2017, 191-207
Mr. Sanjay S.J.	Experimental Investigation on Strength Properties of Concrete Using Partial Replacement of Foundry Sand in Fine Aggregate	National Conference, PESITM, Shivamogga, May 2017
Mr. Sanjay S.J.	Seismic Analysis of Multistorey RC Building with Mass Irregularity Using ETABS	IRJET, Volume 4, Issue 7, July 2017, 637-642
Mr. Rakesh M.K.	Sustainability in Construction Through Masonry Alternatives	IJRSET, Volume 6, Issue 7, July 2017, 1111-1117
Ms. Poornima D.	Seismic Analysis of RC Residential Multistory Building for Different Location of Shear Wall	IJSTE, Volume 3, Issue 11, May 2017, 1-8
Ms. Poornima D.	A Comparative Study on Behaviour and Influence of Masonry Infill RC Frame Multi-Storied Building with Isolated Base and Fixed Base Condition	IRJET, Volume 4, Issue 5, May 2017, 60-67
Ms. Poornima D.	Seismic Analysis of RC Framed Building with Shear Wall at Different Location	National Conference, PESITM, Shivamogga, May 2017
Mrs. Yajnodbhavi	Introduction of rotary intersection at Bhagath Singh circle Vinobanagara Shivamogga	National Conference, PESITM, Shivamogga, May 2017
Mr. Sunil Kumar	Design and Analysis of G+4 Building with special reference to energy efficient materials	National Conference, PESITM, Shivamogga, May 2017
Mr. Halesh Kumar B T	Replacement of Fine Aggregate By Manufacture Sand	IJSTE, May 2017

B. PhD guided/PhD awarded during the assessment period while working in the institute

- PhD guided

2016

Sl.no	Guide	Research Scholars	Year of registration
1	Dr.B M Gangadharappa	Mrs.AshwiniB T	2016
2	Dr.M.N. Hiremath	a)Mr. Rakesh M K b)Mr.Sanjay S J	2019

- PhD awarded during the assessment period while working in the institute

Sl.no	Name of the Faculty	Topic	Year
1	Dr.M.N. Hiremath	"Fluoride problems in Mundaragi taluk of Karnataka and Column studies on defluoridation of water using low cost adsorbents".	2016
2	Dr.Nandan N Shenoy	"Measurements of Environmental Fluids"	2020

### 5.7.2 Sponsored Research (5)

Institute Marks : 0.00

#### 2018-19 (CAYm1)

Project Title	Duration	Funding Agency	Amount
NA	NA	NA	0.00
			Total Amount(X): 0.00

#### 2017-18 (CAYm2)

Project Title	Duration	Funding Agency	Amount
NA	NA	NA	0.00
			Total Amount(Y): 0.00

#### 2016-17 (CAYm3)

Project Title	Duration	Funding Agency	Amount
NA	NA	NA	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

**5.7.3 Development Activities (10)**

Institute Marks : 5.00

1. —As a part of academic project, product development in form of building / construction materials has been attempted  
—
2. —Various instructional materials, such as physical models, video, animations and laboratory manuals are used.
3. Models and charts are used for theory and laboratory courses.

**5.7.4 Consultancy(from Industry) (5)**

Institute Marks : 0.00

**2018-19 (CAYm1)**

<b>Project Title</b>	<b>Duration</b>	<b>Funding Agency</b>	<b>Amount</b>
Third Party inspection of Karnataka state open university at Shivamogga	3 Years	Karnataka State Open University, Mysore	125000.00
			Total Amount(X): 125000.00

**2017-18 (CAYm2)**

<b>Project Title</b>	<b>Duration</b>	<b>Funding Agency</b>	<b>Amount</b>
NA	NA	NA	0.00
			Total Amount(Y): 0.00

**2016-17 (CAYm3)**

<b>Project Title</b>	<b>Duration</b>	<b>Funding Agency</b>	<b>Amount</b>
NA	NA	NA	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 125000.00

**5.8 Faculty Performance Appraisal and Development System (FPADS) (30)**

Total Marks 20.00

Institute Marks : 20.00

Faculty Performance Assessment is with respect to the following parameters

1. Faculty Self Appraisal
2. Student feedback
3. Appraisal by Head of the Department

**1. Faculty Self Appraisal**

Self Appraisal is adopted once in a year for an academic year. Self appraisal includes various parameters of assessment and the Self Appraisal Format is as mentioned below.

**2. Student Feedback**

Student feedback is collected and assessed once in a semester. Student feedback is collected after the 1<sup>st</sup> CIE every semester. Student feedback is based on academic parameters. The Student Feedback format and Feedback of three academic years has been mentioned below.

**3. Appraisal by Head of the Department**

Self appraisal format consists of remarks by HOD for self appraisal of the faculty. The evaluation of HOD will be forwarded to the management through Principal of the Institution.

**5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)**

Total Marks 0.00

— Seminars / Talks by experts on various Civil Engineering topics have been organized in the department as a part of professional activities and engineering events, as mentioned in 4.6.1

— No specific visiting Faculty with 50 hours of interaction per year has been achieved in the program of study

## 6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 51.00

### 6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 20.00

Institute Marks : 20.00

Sr. No	Name of the Laboratory	Number of students per set up (Batch Size)	Name of the Important Equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Material Testing Laboratory	20	1) Universal testing machine 2) Hardness Testing Machine 3) Sieve Shaker 4) Impact Testing Machine	9 Hours	Mr. Rakesh Kumar	Lab Instructor	Diploma in Civil Engineering
2	Basic Surveying Practice	20	1) Total Station 2) Theodolite 3) Levelling Instruments 4) Compass	9 Hours	Mr. Rakesh Kumar	Lab Instructor	Diploma in Civil Engineering
3	Fluid Mechanics and Hydraulic Machines Laboratory	20	1) Turbines 2) Centrifugal Pump 3) Notch Apparatus 4) Weir Apparatus 5) Flow through pipes and Losses	9 Hours	Mr. Rakesh Kumar	Lab Instructor	Diploma in Civil Engineering
4	Engineering Geology Laboratory	20	Rocks and Mineral Specimens	9 Hours	Mr. Rakesh Kumar	Lab Instructor	Diploma in Civil Engineering



5	Geotechnical Engineering Laboratory	20	1) Direct Shear Test apparatus 2) Tri-axial shear test apparatus 3) Consolidation test apparatus	9 Hours	Mr. Rakesh Kumar	Lab Instructor	Diploma in Civil Engineering
6	Computer Aided Building Planning & Drawing	25	1) Core i5 Systems 2) Printer	9 Hours	Mr. Richarson B.	Lab Instructor	Diploma in Civil Engineering
7	Software Application Laboratory	25	1) Core i5 Systems 2) Printer	9 Hours	Mr. Richarson B.	Lab Instructor	Diploma in Civil Engineering
8	Environmental Engineering Laboratory	20	1) Spectrophotometer 2) COD Digester 3) Muffle Furnace 4) Digital pH meter 5) Nephelometer	9 Hours	Mr. Richarson B.	Lab Instructor	Diploma in Civil Engineering
9	Computer Aided Detailing of Structures	25	1) Core i5 Systems 2) Printer	9 Hours	Mr. Richarson B.	Lab Instructor	Diploma in Civil Engineering
10	Concrete & Highway Materials Testing Laboratory	20	1) Compression Testing Machine 2) Los Angeles Abrasion Testing Machine 3) Autoclave 4) Bitumen Ductility Testing Machine	9 Hours	Mr. Richarson B.	Lab Instructor	Diploma in Civil Engineering

**6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)**

Total Marks 15.00

Institute Marks : 15.00

<b>Sr. No</b>	<b>Facility Name</b>	<b>Details</b>	<b>Reason(s) for creating facility</b>	<b>Utilization</b>	<b>Areas in which students are expected to have enhanced learning</b>	<b>Relevance to POs/PSOs</b>
1	Rivet Architecture	Training conducted for 4thsem students during vacation (one week training program)	To provide exposure to students about RIVET software	One week during vacation	Enhance software skills, which will help for their academics	PO5, PO6, PO10, PSO2
2	Total Station Training	The instrument is used for linear and angular measurements in horizontal and vertical plane precisely, 3rd semester, survey laboratory	To provide exposure to students about the modern instruments used in surveying	Demonstration and usage of the instrument for leveling work	Modern methods in Surveying	PO1,PO2,PO9
3	Rebound Hammer	Non Destructive Testing Equipment	Demonstration, Project Work	During the course of academics	Evaluation of existing structures	PO2,PO4
4	Ultrasonic Pulse Velocity Apparatus	Non Destructive Testing Equipment	Demonstration, Project Work	During the course of academics	Evaluation of existing structures	PO2,PO4

**6.3 Laboratories: Maintenance and overall ambiance (10)**

Total Marks 7.00

**The Process for the maintenance of the laboratory equipment is as follows:**

1. One Teaching faculty and a Laboratory instructor will be in-charge of the overall functioning and maintenance of each laboratory.
2. Regular checkup of the equipment is carried out as and when required and also at the end of every semester.
3. Maintenance register is kept in the laboratory and updated regularly.
4. Any damage to the equipment is detected, corrective measures are taken immediately.
5. Laboratory requirements and maintenance are satisfied through the department budget.
6. All laboratories are well equipped and have uninterrupted power supply.
7. Calibration is done for the equipment on regular basis.

**The Process for procurement of consumables for the maintenance of the laboratory is as follows**

1. The teaching faculty along with the laboratory instructor collects the requirements of the consumables and procures the same before the beginning of the semester.
2. Requisition for the list of consumables is sent to the HOD.
3. The HOD, in turn, will verify the same.
4. The verified list is then sent to the Principal for the necessary action.
5. The details are updated in the department stock book

**Breakdown Maintenance**

Servicing and repair of the machines and equipment's is done by professional consultants and also the replacement of the parts worn and torn is done periodically by the technical staff.

**6.4 Project laboratories (5)**

Total Marks 3.00

Institute Marks : 3.00

Following are the facilities available in Project Laboratory

Sl. No.	Particulars	No.	Utilization
1	Personal Computers with necessary furniture	2	Final Year Academic Project
2	Flexural Strength Testing Machine	1	Final Year Academic Project
3	Rebound hammer	1	Demonstration and Final Year Academic Project
4	Ultrasonic Pulse Velocity Test Apparatus	1	Demonstration and Final Year Academic Project

**6.5 Safety measures in laboratories (10)**

Total Marks 6.00

Institute Marks : 6.00

Sr. No	Laboratory Name	Safety Measures
1	Environmental Engineering Lab	1. Basic first Aid Kit. 2. Fire Extinguishers. 3. Students are compulsorily made to wear aprons, gloves, protection goggles and shoes. 4. Safety measures are displayed. 5. All the furniture is ergonomically designed. 6. Orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.
2	Geo technical Engineering Lab	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Students are compulsorily made to wear aprons, gloves, and shoes. 5. All the furniture is ergonomically designed. 6. Orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.
3	Concrete And Highway Material Laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Students are compulsorily made to wear aprons. 5. Use of safety hand gloves, protection goggles, ear plug, and shoes. 6. Use of respiratory mask during mixing of cement mortar and cement concrete. 7. All the furniture is ergonomically designed. 8. The orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.
4	Surveying Laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Students are compulsorily made to wear aprons, hat and shoes. 5. All the furniture is ergonomically designed. 6. Orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.

5	Engineering Geology Laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. All the furniture is ergonomically designed. 5. Orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.
6	Computer Aided design Laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Electric points are provided with proper earthing, switch boxes are closed, and wires are insulated and are in good condition. 5. All the furniture is ergonomically designed. 6. Orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment.
7	Hydraulics and Hydraulic machine laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Students are compulsorily made to wear aprons, gloves, and shoes. 5. All the furniture is ergonomically designed. 6. The orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment
8	Basic material testing laboratory	1. Basic first Aid Kit 2. Fire Extinguishers. 3. Safety measures are displayed. 4. Students are compulsorily made to wear aprons, gloves, and shoes. 5. All the furniture is ergonomically designed. 6. The orientation program will be conducted in the first class about the safety measures and handling of instrument/equipment

## 7 CONTINUOUS IMPROVEMENT (50)

Total Marks 29.00

### 7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 12.00

Institute Marks : 12.00

### POs Attainment Levels and Actions for Improvement- (2018-19)

POs	Target Level	Attainment Level	Observations
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**PO 1 : Engineering Knowledge**

PO 1	1.94	1.46	All the courses contribute towards attainment of PO1. PO is achieved with respect to the set level of 75%
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No Specific action initiated as the level is attained. But to continue focus on engineering fundamentals for better applied knowledge

**PO 2 : Problem Analysis**

PO 2	1.92	1.40	Attainments of First Year Course Mathematics-I, Physics and C-Programming and Second year course Applied Hydraulics and Analysis of Determinate Structures and Third Year courses CABPD and Construction Management and entrepreneurship are less compared to other courses.
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Action 1: Encouragement to students to identify problems and propose probable solutions through literature study for courses like academic project and seminar

**PO 3 : Design/development of Solutions**

PO 3	2.08	1.56	Attainments of First Year Course Mathematics-I, Mathematics-II, Chemistry and C-Programming, Civil Engineering and Second year course Mathematics-3, Mathematics-4 and Engineering Geology Laboratory and Fourth Year courses Hydrology and Irrigation Engineering and Urban Transportation Planning are less compared to other courses.
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Action 1: Special focus on Skill development with respect to real world problems and logical reasoning for solutions through training Action 2: Attention to courses with considerations to societal and environmental concern

**PO 4 : Conduct Investigations of Complex Problems**

PO 4	1.50	1.19	Basic Science, Basic Engineering and professional core courses, where research based knowledge is utilized, primarily contributes for attainment of PO4. PO is achieved with respect to the set level of 75%
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Not Applicable. But focus to remain on interpretation of data.

**PO 5 : Modern Tool Usage**

PO 5	1.70	1.35	Laboratory courses related to drawing, detailing and courses like advanced surveying and RGIS primarily contributes towards attainment of PO5, where computer aided tools are used. PO is achieved with respect to the set level of 75%
No actions intended. But students are motivated to have awareness on IT tools.			
<b>PO 6 : The Engineer and Society</b>			
PO 6	1.56	1.17	Courses like Highway Engineering, Waste Management, Irrigation Engineering, Urban Transport Planning, Construction Management, Contract Management contributes towards attainment of PO6. PO is achieved with respect to the set level of 75%
As the level has been attained, No specific action initiated			
<b>PO 7 : Environment and Sustainability</b>			
PO 7	1.78	1.47	Environmental Engineering courses, Building Materials, Alternative Building Materials, Concrete Technology have contributions for PO7 attainment. PO is achieved with respect to the set level of 75%
No Specific action initiated as the level is attained. But students are encouraged to take up projects on sustainability concepts			
<b>PO 8 : Ethics</b>			
PO 8	1.29	1.29	Structural Design courses, internship primarily contributes for Ethics. PO is achieved with respect to the set level of 75%
As the level has been attained, No specific action initiated			
<b>PO 9 : Individual and Team Work</b>			
PO 9	1.93	1.68	Extensive Survey, Laboratory courses, Internship, Project Work provides platform for functioning effectively as individuals and in a team. PO is achieved with respect to the set level of 75%
No Specific action initiated as the level is attained. But students are directed to participate in groups for Extracurricular activities like Model Making, Group Discussions			

<b>PO 10 : Communication</b>			
PO 10	1.71	1.71	Drawing & Detailing courses, Extensive Survey, Seminar, Project work, Internship gives opportunities for effective communication in different modes. PO is achieved with respect to the set level of 75%
As the level has been attained, No specific action initiated			
<b>PO 11 : Project Management and Finance</b>			
PO 11	2.08	1.90	Extensive Survey, Construction Management, Contract Management, Highway Engineering, Internship, Seminar courses contributes towards attainment of PO11. PO is achieved with respect to the set level of 75%
No Specific action initiated as the level is attained.			
<b>PO 12 : Life-long Learning</b>			
PO 12	1.49	1.30	Basic Science courses, Computer Aided laboratories, internship and project work provide opportunity to learn tools and skills required for independent learning. PO is achieved with respect to the set level of 75%
As the level has been attained, No specific action initiated			

### **PSOs Attainment Levels and Actions for Improvement- (2018-19)**



PSOs	Target Level	Attainment Level	Observations
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**PSO 1 : Plan, Analyze, Design, Execute and Maintain cost effective Civil Engineering structures to pursue opportunities for personal and professional growth as well as higher studies**

PSO 1	2.21	1.61	Academic performance, Skill development and Ability to apply the knowledge will have to be balanced which is not possible only with curriculum.
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Action 1: Industry Institute Interactions to enhance technical skills and professional practice Action 2: Internship Programs at recognized organizations

**PSO 2 : Take up Entrepreneurship, Research and Development and demonstrate leadership skills**

PSO 2	1.82	1.36	Problem identification, development of probable solutions and volunteering the situations are key, partly which is achieved through curriculum.
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Action1: To incorporate career guidance on higher education, research opportunities in training programs Action 2: To support and encourage students and Alumni to take up entrepreneurship

**PSO 3 : Demonstrate professional integrity and ethical values for sustainable civil society**

PSO 3	1.49	1.11	Importance of integrity and ethics has to be realized and not met through only curriculum. Need for sustainable solutions are taught through core and elective courses.
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Action 1: Continue to offer Out Bound Training for students on ethical practices and Societal Concern through NSS Activities.

**7.2 Academic Audit and actions taken thereof during the period of Assessment (10)**

Total Marks 7.00

Institute Marks : 7.00

- Course File Evaluation:** Course file are prepared by the faculty members before the commencement of the semester. The course file contents are mandated as per recommendations of higher authority of the college. The academic committee members of the department consisting of HOD, course coordinator and few of departmental senior faculty members carry out audit of course file such as Lesson plan, lesson Schedule, subject notes etc. the comments of the committee are given as suggestions to the faculty members and ensures the quality deliverables to the students.

**The course file contents are as listed below**

Sl. No.	Contents
1	Course Instructor's Profile
2	Course Syllabus
3	CO's, CO – PO Mapping, CO – PSO Mapping
4	Student List
5	VTU Calendar, College Calendar, Department Calendar of events
6	Class timetable & Individual time table
7	Lesson Schedule
8	Previous year question paper
9	Course material (notes)
10	IA question papers, scheme of valuation, poor performers list, top performers list, action taken report.
11	IA marks & SEE marks
12	CO attainment, PO attainment, PSO attainment
13	Attendance Register
14	Additional documents (if any) (use of ICT Tools, CCA Components, Assignment for students, Action to bridge the gap, topics beyond syllabus, industry visit, site visit)

## 2. Faculty development Program:

The faculty member is encouraged to participate in faculty development program, seminars and workshops related to their specialization. It is required to update the day to day knowledge and to improve the communication skills in teaching learning process.

## 3. Student Feedback:

Online Students feedback is collected by the Gem's Software after the First Internals. Feedback consists of the faculty interactions with the students, faculty communication with the students etc.

## 4. Mentoring:

Mentoring system is being followed in the college. The system works as follows.

Each Faculty member is been recognized as a mentor for minimum of 20 number of student. It is mentor's responsibility to collect his/her Academic performances, their progression and problems that they face in the college. Mentors are advised to guide their students to learn beyond syllabus to face the challenges during their carrier growth.

The report of the student will be send through the postal address of their parents after every internals and the parents are insisted to meet the respective mentors once in a semester.

## 5. Parents Feedback:

The parents meet is held for every semester , the internals performance and attendance status of each student are sent to their parents through post and internal marks, interaction in the class and attendance status are shown to the respective parents during the parents meet .

## 6. Alumni Feedback:

Alumni feedback and suggestions received during the alumni meet for the betterment of the Department.

Following Table is an Indicative of **Number of Students** who have placed in companies, Pursuing Higher Studies and Established as Entrepreneurs

Batch	Placement	Higher Studies	Entrepreneurs	Total
2013-2017	34	06	02	42
2014-2018	27	07	01	35
2015-2019	21	03	NIL	24

Following Table is an Indicative of **nature of industry** with respect to placement details

Batch	Placement	Core Industry	Others	% of Placement in Core industry
2013-2017	34	24	10	70%
2014-2018	27	28	NIL	100%
2015-2019	21	19	02	90%

Following Table is an Indicative of **Pay Package** with respect to placement details

Batch	Placement	Average Pay Package
2013-2017	34	2,40,000 per year
2014-2018	27	2,25,000 per year
2015-2019	21	2,00,000 per year

Following Table is an Indicative of **improvement in** placement

Batch	Number of appeared in final year examination	Total Placement (Students Placed + Higher Studies + Entrepreneurs)	% of Placement
2013-2017	66	42	64%
2014-2018	46	35	76%
2015-2019	59	24	41% <i>(Graduated in August 2019)</i>

#### 7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 5.00

Institute Marks : 5.00

Item		2019-20	2018-19	2017-18
National Level Entrance Examination  COMEDK-UGET	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others  KEA-KCET	No of students admitted	33	48	53
	Opening Score/Rank	26585	40828	38647
	Closing Score/Rank	214379	145567	120968
Name of the Entrance Examination for Lateral Entry or lateral entry details  KEA-DCET	No of students admitted	19	21	15
	Opening Score/Rank	1415	1999	4341
	Closing Score/Rank	15170	14163	15624
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		46	47	46

## 8 FIRST YEAR ACADEMICS (50)

Total Marks 36.73

### 8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nat Ass (Re Cor)
							CAY	CAYm1	CAYm2		
Dr. Aveesh S.	ALUPT7731J	M.Sc. and PhD	14/03/2010	differential Geometry	Associate Professor	18/07/2016	11	11	11	Yes	Reg

Dr. Chandru K	AZGPC8846B	M.Sc. and PhD	15/02/2019	Differential Geometry	Assistant Professor	29/01/2018	11	11	11	Yes	Req
Mr. Umeshaiyah	ABLPU8326K	M.Sc	23/03/2008	Mathematics	Assistant Professor	04/09/2008	11	11	11	Yes	Req
Mrs. Veda L K	AIQPV0071N	M.Sc	17/03/2004	Mathematics	Assistant Professor	16/02/2009	11	11	11	Yes	Req
Mrs. Swathi V.	FZEPS8237P	M.Sc	24/03/2016	Mathematics	Assistant Professor	16/07/2015	11	11	11	Yes	Req
Mr. Shreyas M.	FPPPS6592G	M.Sc	07/08/2019	Mathematics	Assistant Professor	29/07/2019	11	0	0	Yes	Req
Dr. Shivakuma	AECPK7375N	M.Sc. and Ph.D. (Chemistry)	02/05/2000	Chemistry	Professor	01/08/2007	11	11	11	Yes	Req
Dr. Praveen ku	BHQPP3039N	M.Sc. and Ph.D. (Chemistry)	01/08/2013	Chemistry	Assistant Professor	27/01/2014	11	11	11	Yes	Req
Ms. Roopa C. I	DDRPR9742F	M.Sc	02/12/2017	Chemistry	Assistant Professor	07/08/2017	11	11	11	Yes	Req
Dr. Pramod Gc	AXZPP7633A	M.Sc. and PhD	09/01/2007	Aerosol Physics	Associate Professor	01/02/2010	11	11	11	Yes	Req
Ms. Ramya K	DVRPK0646F	M.Sc	19/03/2014	Solid State Physics	Assistant Professor	19/08/2013	11	11	11	Yes	Req
Dr. Archana M	BDMPA5992B	M.Sc. and PhD	15/02/2019	Fluid Mechanics	Assistant Professor	25/07/2018	0	11	0	No	Req
Mrs. Vasavi G.	AZCPV9665P	M.Sc	24/03/2016	Mathematics	Assistant Professor	16/07/2015	0	0	11	No	Req
Abhipsa A Y	AKHPY7506L	M.Sc	24/03/2016	Chemistry	Assistant Professor	29/01/2018	0	0	11	No	Req

Shruthi G S	GXGPS1448D	M.Sc	18/06/2015	Chemistry	Assistant Professor	18/07/2016	0	0	11	No	Req
Narendra Babu	AWCPN1195P	M.Sc	12/03/2018	Solid State Physics	Assistant Professor	22/08/2017	0	0	11	No	Req
Mr. Chethan B	AOTPC5115P	M.E/M.Tech	03/05/2014	VLSI Embedded System	Assistant Professor	21/07/2014	11	11	11	Yes	Req
Mrs. Shymala S	AMJPC3468P	M.E/M.Tech	04/05/2014	VLSI Embedded System	Assistant Professor	08/08/2013	11	11	11	Yes	Req
Mrs. Yajnodhara	ALQPY8597B	M.E/M.Tech	19/10/2013	Transportation Engineering	Assistant Professor	06/09/2010	11	11	11	Yes	Req
Mrs. Pooja Y. E	CPGPP0160K	M.E/M.Tech	23/07/2015	Earthquake Engineering	Assistant Professor	06/02/2017	11	11	11	Yes	Req
Mrs Neetha H I	ASBPN6858L	M.E/M.Tech	05/04/2013	Energy System	Assistant Professor	25/07/2012	11	11	11	Yes	Req
Mr. Shanthveer	GAYPS9826J	M.E/M.Tech	08/09/2018	Electrical and Electronics Engineering	Assistant Professor	23/07/2018	11	0	0	Yes	Req
Ms. Nayana K	AMXPN1818Q	M.E/M.Tech	05/04/2013	Information Communication Technology	Assistant Professor	24/01/2011	11	11	11	Yes	Req
Ms. Ashwini S	AVRPA8448E	M.E/M.Tech	03/05/2014	Computer Science Engineering	Assistant Professor	21/07/2016	11	11	11	Yes	Req
Mr. Kailash Ru	BOLPK0162B	M.E/M.Tech	03/05/2014	Computer Science Engineering	Assistant Professor	21/07/2014	11	11	11	No	Req
Mr. Malteshkur	BTGPM0265H	M.E/M.Tech	21/07/2017	Mechanical Engineering	Assistant Professor	18/07/2016	11	11	11	Yes	Req

Mr. Koushik P.	CXMPP8138D	M.E/M.Tech	03/12/2015	Mechanical Engineering	Assistant Professor	16/07/2015	11	11	11	Yes	Req
Mr. Mahanthes	BTGPM0265H	M.E/M.Tech	05/05/2016	Mechanical Engineering	Assistant Professor	18/07/2016	11	11	11	Yes	Req
Mr. Amruth P.	BBOPA3504R	M.E/M.Tech	05/05/2016	Mechanical Engineering	Assistant Professor	16/07/2015	11	11	11	Yes	Req
Mr. Nandan N.	AGBPN8960H	M.E/M.Tech	06/06/2009	Environmental Engineering	Assistant Professor	17/09/2007	0	0	11	Yes	Req
Mr Vishwas S	AKHPV5924B	M.E/M.Tech	05/04/2013	Electrical and Electronics Engineering	Assistant Professor	27/07/2012	0	11	11	No	Req
Dr. Sendhil G	BSMPS7164N	M.A and Ph.D	15/02/2012	VOLLEYBALL	Assistant Professor	04/09/2008	16	16	16	Yes	Req
Chandrashekh:	AIOPC5400E	M.Phil	01/02/2008	ELECTRONIC RESOURCES	Assistant Professor	01/08/2007	16	16	16	Yes	Req

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR(Limited to Max.5)
2017-18(CAYm2)	60	3	20	5
2018-19(CAYm1)	60	3	20	5
2019-20(CAY)	60	3	20	5
<b>Average</b>	60	3	20	5

### 8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 5.00

Institute Marks : 5.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [ (5x + 3y) / RF ]
2017-18	5	23	3	31.00
2018-19	5	21	3	29.00
2019-20	6	20	3	30.00

Average Assessment: 30.00

### 8.3 First Year Academic Performance (10)

Total Marks 5.73

Institute Marks : 5.73

Academic Performance	2019-20	2018-19	2017-18
Mean of CGPA or mean percentage of all successful students(X)	5.81	6.03	6.59
Total Number of successful students(Y)	42.00	48.00	49.00
Total Number of students appeared in the examination(Z)	45.00	50.00	54.00
API [X*(Y/Z)]	5.42	5.79	5.98

Average API[ (AP1+AP2+AP3)/3 ] : 5.73

Assessment [ 1.5 \* Average API] : 5.73

### 8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 8.00

#### 8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

**CAY (2019-20) & CAYm1 (2018-19)**



- Three Internal tests for maximum marks of 30 are conducted and average of three internals is considered.
- 10 marks shall be awarded based on the evaluation of CCE component (i.e., Assignment, Class presentation, Mini Project, Case Study etc.)
- Maximum total internal marks for each course are 40. The student has to get a minimum of 16 marks to appear for the exam in the corresponding course.
- Semester end examination maximum marks is 60 is considered for external exam performance.
- The marks scored by the students in internal assessment are categorized based on CO's.
- 60% of university exam marks is considered as [N1] and 40% of internal assessment marks is considered as [N2] for every CO. The direct attainment of the course is given by [N1+N2] for every CO.
- For the laboratory, Continuous Internal Assessment is performed based on conduction of experiment, observations, viva and practical record for 24 marks. One semester end practical test is conducted for maximum of 16 marks. The total CIE marks for the laboratory course is 40. The student has to score a minimum of 20 marks to appear for the exam.
- Semester end examination maximum marks are 60 for the laboratory.
- The direct attainment is calculated by considering 50% weightage of SEE & 50% weightage of CIE.

#### **CAYm2 (2017-18)**

- Three Internal tests for maximum marks of 30 are conducted and average of best two internals is considered.
- 10 marks shall be awarded based on the evaluation of CCE component (i.e., Assignment, Class presentation, Mini Project, Case Study etc.)
- Semester end examination maximum marks is 60 is considered for external exam performance.
- The marks scored by the students in internal assessment are categorized based on CO's.
- 60% of university exam marks is considered as [N1] and 40% of internal assessment marks is considered as [N2] for every CO. The direct attainment of the course is given by [N1+N2] for every CO.
- For the laboratory, Continuous Internal Assessment is performed based on conduction of experiment, observations, viva and practical record for 24 marks. One semester end practical test is conducted for maximum of 16 marks. The total CIE marks for the laboratory course is 40. The student has to score a minimum of 20 marks to appear for the exam.
- Semester end examination maximum marks are 60 for the laboratory.
- The direct attainment can be calculated by considering 60% weightage of SEE & 40% weightage of CIE.

#### **Procedure to measure the attainment level for the courses**

The attainment of a particular CO in a course is calculated using the equation

$$\% \text{ Course attainment} = \frac{x}{y} \times 100$$

Where,

x = total marks scored by students in the particular CO scoring more than the set target

Y = number of participants (who attempted that CO)

## Course Outcomes of First Year Subjects

<b>Course Name and Code: Calculus &amp; Linear Algebra [18MAT11]</b>	
<b>Semester : 1</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO101.1	<b>Apply</b> the Knowledge of calculus to <b>solve</b> the problems related to curvature and <b>evaluate</b> partial derivatives to <b>estimate</b> maxima and minima of multivariable functions.
CO101.2	<b>Define</b> the concept of multiple Integrals to <b>Evaluate</b> area, volume and to <b>solve</b> problems on improper integrals.
CO101.3	<b>Solve</b> first order ordinary linear/Non linear differential equation and able to <b>apply</b> in different engineering applications.
CO101.4	<b>Use</b> matrices techniques for <b>solving</b> system of simultaneous linear equations, Eigen values and Eigen vectors of the matrix.

<b>Course Name and Code: ENGINEERING PHYSICS [18PHY12/22]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO102.1	Understand various types of oscillations and their implications, the role of Shock waves in various fields
CO102.2	Study and recognize the elastic properties of materials for engineering applications
CO102.3	Realize the interrelation between time varying electric field and magnetic field, the transverse nature of the EM waves and their role in optical fiber communication.
CO102.4	Learn the basics of quantum physics. Apprehend theoretical background of laser, construction and working of different types of laser and its applications in different fields
CO102.5	Understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models.

<b>Course Name and Code: Basic Electrical Engineering [18ELE13]</b>	
<b>Semester : 1</b>	<b>Academic Year</b>
<b>:2018-19</b>	
<b>After studying this course, a student will be able to</b>	
CO103.1	Understand the significance of Ohms law and their different applications
CO103.2	Understand the concepts of generation of single and three phase voltages
CO103.3	Analyze the importance of transformers and electrical wiring in engineering field
CO103.4	Understand the concepts of Direct current and different types of generator, motors and their industrial applications
CO103.5	Analyze the working of AC Generator with their working principal and its importance in power plant

<b>Course Name and Code: Elements of Civil Engineering &amp; Mechanics [18CIV14/24]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO104.1	Mention the applications of various fields of Civil Engineering and compute the resultant of given force system subjected to various load.
CO104.2	Comprehend the action of forces, moments and other loads on systems of rigid bodies and Compute the reactive forces and effects that develop as a result of the external loads.
CO104.3	Locate the centroid and compute the moment of inertia of regular and built-up sections.
CO104.4	Express the relationship between the motion of bodies and analyze the bodies in motion.

<b>Course Name and Code: Engineering Graphics [18EGDL15/25]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO105.1	Identify the importance of computer aided sketching and orthographic projection of Points and lines.
CO105.2	Produce the sketch for projection of plane surfaces.
CO105.3	Use the knowledge of sketching to represent projection of solid surfaces.
CO105.4	Understand the importance of Lateral surfaces and able to sketch Development of given isometric drawings of simple objects.

<b>Course Name and Code: ENGINEERING PHYSICS LABORATORY [18PHYL16/26]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO106.1	Apprehend the concepts of interference of light, diffraction of light using laser light
CO106.2	Apprehend the concepts of radiation, resistance, Fermi energy and understand the principles of operation of dielectric material, optical fibres, Photodiode and Transistor using simple circuits
CO106.3	Determine elastic moduli and moment of inertia of given materials with the help of suggested procedures
CO106.4	Recognize the resonance concept and its practical applications
CO106.5	Understand the importance of measurement procedures, honest recording and representing the data and reproduction of final results

<b>Course Name and Code: Basic Electrical Engineering Laboratory [18ELEL17/27]</b>	
<b>Semester :1</b>	<b>Academic Year :2018-</b>
<b>19</b>	
<b>After studying this course, a student will be able to</b>	
CO107.1	Select a suitable measuring instrument for measuring electrical quantities for a given application
CO107.2	Design the circuit and analyze different types of connections in single and three phase electrical system.

<b>Course Name and Code: Technical English-I [18EGH18]</b>	
<b>Semester : 1</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO108.1	Use grammatical English and essentials of language skills and identify the nuances of phonetics, intonations and flaw less pronunciation.
CO108.2	Implement English vocabulary at command and language proficiency.
CO108.3	Identify common errors in spoken and written communication.
CO108.4	Understand and improve the non verbal communication and kinesics.
CO108.5	Perform well in campus recruitment, engineering and all other general competitive examination.

<b>Course Name and Code: Advanced Calculus &amp; Numerical Methods[18MAT21]</b>	
<b>Semester : 2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO109.1	<b>Develop</b> the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line, surface and volume integrals.
CO109.2	<b>Demonstrate</b> various physical models through higher order differential equations and <b>solve</b> such linear ordinary differential equations.
CO109.3	<b>Construct</b> a variety of partial differential equations and solution by exact methods/method of separation of variables.
CO109.4	<b>Explain</b> the applications of infinite series and obtain series solutions of ordinary differential equations. <b>Apply</b> numerical methods in the modeling of engineering problems.

<b>Course Name and Code: ENGINEERING CHEMISTRY [18CHE12/22]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO110.1	To Understand free energy in equilibria and electrochemical energy systems
CO110.2	Comprehend the causes and effects of corrosion of metals and control of corrosion.
CO110.3	Explain production and consumption of energy for industrialization and consumption of solar energy for different useful forms of energy
CO110.4	Analyze the environmental pollution, waste management and water chemistry
CO110.5	Identify the different techniques of instrumental methods of analysis of given solution, Fundamental principles of nano materials.

<b>Course Name and Code: C Programming for Problem solving [18CPS13]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO111.1	Comprehend basics of computer hardware, software and overview of C.

CO111.2	Apply conditional and looping constructs to write C program.
CO111.3	Illustrate Arrays, data types, expressions, control statements, functions, file and I/O operations
CO111.4	Design iterative and recursive functions for computational problems. Illustrate usage of C library.
CO111.5	Use Structures, Pointers and Preprocessor directives in problem solving.

<b>Course Name and Code: Basic Electronics [18ELN14]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO112.1	Describe the operation of diodes, BJT, FET and operational amplifiers
CO112.2	Design and explain constructions of rectifiers, regulators, amplifiers and oscillators
CO112.3	Describe the general operating principles of scr and its application
CO112.4	Explain the working and design of fixed IC voltage regulator using 7805 and a stable oscillator using timer IC555.
CO112.5	Different number conversions and construct simple combinational and sequential logic circuits using Flip Flops.

<b>Course Name and Code: Elements of Mechanical Engineering &amp; Mechanics [18ME15/25]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO113.1	Identify different sources of energy and their conversion process.
CO113.2	Explain the working principle of hydraulic turbines, pumps,
CO113.3	Describe the working of I C engines and refrigeration systems.
CO113.4	Understand the properties of common engineering materials and their applications in engineering industry. Recognize various metal joining processes and power transmission elements.
CO113.5	Discuss the working of conventional machine tools, machining processes, tools and accessories. Describe the advanced manufacturing systems.

<b>Course Name and Code: ENGINEERING CHEMISTRY LABORATORY [18CHEL16/26]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO114.1	Handling different types of instruments for analysis of materials using small quantities of materials involved for quick and accurate results.
CO114.2	Carrying out different types of titrations for estimation of concerned in materials using comparatively more quantities of materials involved for good results.

<b>Course Name and Code: C Programming Laboratory [18CPL17]</b>	
<b>Semester : 1/2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	

CO115.1	Explain the various commands used during the execution of the program.
CO115.2	Utilize the process of debugging and execution.
CO115.3	Develop and illustrate simple C programs.
CO115.4	Construct flowchart and algorithm for the given problems.

<b>Course Name and Code: Technical English-II [18EGH28]</b>	
<b>Semester : 2</b>	<b>Academic Year :2018-19</b>
<b>After studying this course, a student will be able to</b>	
CO116.1	Identify common errors in spoken and written communication.
CO116.2	Get familiarized with English vocabulary and language proficiency.
CO116.3	Improve nature and style of sensible writing and acquire employment and workplace communication skills.
CO116.4	Improve their Technical Communication Skills through Technical Reading and Writing practices.
CO116.5	Perform well in campus recruitment, engineering and all other general competitive examination.

## Attainment of Course Outcomes of all first year courses CAYm1 (2018-19)

Sl. No.	Subject	Subject Code	NBA Code	CO Code	Target (%)	Achieved For set target	Attainment
1	Calculus & Linear Algebra	18MAT11	C101	CO101.1	50	68.33	3
				CO101.2		71.28	3
				CO101.3		71.94	3
				CO101.4		67.02	3
2	Engineering Physics	18PHY12/22	C102	CO102.1	45	53.00	0
				CO102.2		55.75	1
				CO102.3		57.70	1
				CO102.4		54.60	0
				CO102.5		53.58	0
3	Basic Electrical Engineering	18ELE13/23	C103	CO103.1	50	68.47	3
				CO103.2		63.67	2
				CO103.3		76.83	3
				CO103.4		74.57	3
				CO103.5		69.27	3

4	Elements of Civil Engineering & Mechanics	18CIV14/24	C104	CO104.1	55	51.82	0
				CO104.2		52.52	0
				CO104.3		55.21	1
				CO104.4		54.51	0
5	Engineering Graphics	18EGDL15/25	C105	CO105.1	50	73.45	3
				CO105.2		73.45	3
				CO105.3		73.45	3
				CO105.4		73.45	3
6	Engineering Physics Lab	18PHYL16/26	C106	CO106.1	55	61.75	2
				CO106.2		61.75	2
				CO106.3		61.75	2
				CO106.4		61.75	2
				CO106.5		61.75	2
7	Basic Electrical Engineering Lab	18ELEL17/27	C107	CO107.1	55	73.49	3
				CO107.2		73.49	3
8	Technical English 1	18EGH18	C108	CO108.1	50	88.96	3
				CO108.2		88.96	3
				CO108.3		88.96	3
				CO108.4		88.96	3
				CO108.5		88.96	3
9	Advanced Calculus & Numerical Methods	18MAT21	C109	CO109.1	50	69.02	3
				CO109.2		69.55	3
				CO109.3		66.51	3
				CO109.4		69.77	3
10	Engineering Chemistry	18CHE12/22	C110	CO110.1	55	67.81	3
				CO110.2		58.78	1
				CO110.3		70.14	3
				CO110.4		69.75	3
				CO110.5		70.43	3
11	C Programming for problem solving	18CPS13/23	C111	CO111.1	50	49.32	0
				CO111.2		46.78	0
				CO111.3		49.55	0
				CO111.4		49.81	0
				CO111.5		52.92	0
12	Basic Electronics	18ELN14/24	C112	CO112.1	50	49.10	0
				CO112.2		51.50	0
				CO112.3		45.05	0
				CO112.4		45.90	0
				CO112.5		49.00	0
13	Elements of Mechanical Engineering	18EME15/25	C113	CO113.1	55	63.22	2
				CO113.2		63.04	2
				CO113.3		67.95	3
				CO113.4		62.17	2

14	Engineering Chemistry Lab	18CHEL16/26	C114	CO113.5	55	65.56	3
				CO114.1		74.22	3
				CO114.2		74.22	3
15	C Programming Lab	18CPL17/27	C115	CO115.1	50	91.42	3
				CO115.2		91.42	3
				CO115.3		91.42	3
				CO115.4		91.42	3
16	Technical English 2	18EGH28	C116	CO116.1	50	72.31	3
				CO116.2		72.31	3
				CO116.3		72.31	3
				CO116.4		72.31	3
				CO116.5		72.31	3

**8.5 Attainment of Program Outcomes from first year courses (20)**

Total Marks 13.00

**8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable (15)**

Institute Marks : 10.00

**POs Attainment:**



Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.4	1.22	1.04	1.04	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.7
C102	1	1.11	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.4	1.69	1.6	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104	1.34	1.15	0.54	.53	PO5	PO6	PO7	.32	PO9	PO10	PO11	PO12
C105	.75	.75	PO3	PO4	.98	PO6	PO7	PO8	PO9	PO10	PO11	.25
C106	.67	.83	PO3	PO4	.83	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107	.98	.98	.25	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	.25
C108	PO1	PO2	PO3	PO4	PO5	1.19	PO7	PO8	.3	2.01	.8	1.44
C109	1.38	1.38	1.04	1.04	PO5	PO6	PO7	PO8	PO9	PO10	PO11	.69
C110	.9	1.85	.93	.53	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	1.3	.8	.9	.99	PO5	PO6	PO7	PO8	PO9	PO10	PO11	.81
C112	1.04	1.09	1.11	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113	1.93	1.86	1.88	1.79	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.91
C114	2.23	1.55	.56	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115	1.83	1.37	2.29	PO4	1.83	PO6	PO7	PO8	.91	.91	PO11	.91
C116	PO1	PO2	PO3	PO4	PO5	0.42	PO7	0.97	0.55	1.89	0.65	0.97

### PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.30	1.26	1.10	0.99	1.21	0.80	0	0.64	0.59	1.60	0.72	0.88
CO Attainment	1.30	1.26	1.10	0.99	1.21	0.80	0	0.64	0.59	1.60	0.72	0.88

**PSOs Attainment:**

Course	PSO1	PSO2	PSO3
	PSO1	PSO2	PSO3

**8.5.2 Actions taken based on the results of evaluation of relevant POs (5)**

Institute Marks : 3.00

**POs Attainment Levels and Actions for Improvement- (2018-19)**

POs	Target Level	Attainment Level	Observations
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**PO 1 : Engineering Knowledge**

PO 1	2.27	1.30	Set Target 55% Target Attained (57.11%)
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NA

**PO 2 : Problem Analysis**

PO 2	1.98	1.26	Set Target 55% Target Attained (63.64%)
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NA

**PO 3 : Design/development of Solutions**

PO 3	1.75	1.10	Set Target 55% Target Attained (63.06%)
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NA

**PO 4 : Conduct Investigations of Complex Problems**

PO 4	1.71	0.99	Set Target 55% Target Attained (57.70%)
NA			

**PO 5 : Modern Tool Usage**

PO 5	2.00	1.21	Set Target 55% Target Attained (60.67%)
NA			

**PO 6 : The Engineer and Society**

PO 6	1.6	0.80	Set Target 55% Not Attained (50%)
Action 1: NSS Activities for social responsibility			

**PO 7 : Environment and Sustainability**

PO 7	NA	NA	First year courses do not contribute towards PO7
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**PO 8 : Ethics**

PO 8	1.5	0.64	Set Target 55% Not Attained (42.67%)
Action1:Interactions with working professionals with students to increase awareness of responsibilities of engineers.			

**PO 9 : Individual and Team Work**

PO 9	1.14	0.59	Set Target 55% Not Attained (51.46%)
Action1: Carrier Development program by Genesis, Carrier prime with special attention to group discussion, leadership skills and team work			

**PO 10 : Communication**

PO 10	2.21	1.60	Set Target 55% Target Attained (72.55%)
NA			

**PO 11 : Project Management and Finance**

PO 11	1.67	0.72	Set Target 55% Not Attained (43.11%)
Action 1:Skill development with respect to real world problems and logical reasoning through training			

**PO 12 : Life-long Learning**

PO 12	1.69	0.88	Set Target 55% Not Attained (52.14%)
Action 1: It is planned to have additional classes for these courses for practicing problems, to improve attainments.			

**PSOs Attainment Levels and Actions for Improvement- (2018-19)**

PSOs	Target Level	Attainment Level	Observations
<b>PSO 1 : Plan, Analyze, Design, Execute and Maintain cost effective Civil Engineering structures to pursue opportunities for personal and professional growth as well as higher studies</b>			
PSO 1			
<b>PSO 2 : Take up Entrepreneurship, Research and Development and demonstrate leadership skills</b>			
PSO 2			
<b>PSO 3 : Demonstrate professional integrity and ethical values for sustainable civil society</b>			
PSO 3			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 39.00

9.1 Mentoring system to help at individual level (5)

Total Marks 4.00

Institute Marks : 4.00

**Mentoring system to help at individual level**

- **Type of mentoring:** In Department of Civil Engineering Mentoring is offered for course specific developments & all-round development of the students

- **Number of faculty mentors:** 11 Faculties
- **Number of students per mentor:** 20 – 25 (on an average)
- **Frequency of meeting:** 2 times in a semester, generally each meeting after 1<sup>st</sup> & 2<sup>nd</sup> Internal Assessment.

#### **Process of Mentoring System**


- Based on the number of students in the department, mentor allocation is made at department level
- Generally three mentors for a year of study are allocated at department of Civil Engineering.
- Mentors collect the mentee information in a standard format, which includes details for communication with student and parents.
- The standard format also includes details of academic performance of the students, which the mentor maintains.
- Communication of performance of mentee, to the parents is also through the mentor.
- Any development / complaint with respect to the student will be brought to the notice of the mentor through Head of the department.
- All the documents maintained are communicated to the parents by the Mentor during parent's meeting called at department level.

Sample of mentee information and Students Appraisal Report monitored, maintained and communicated through mentoring system is as mentioned below.

**PES Institute of Technology & Management, Shivamogga - 577204**

**DEPARTMENT OF CIVIL ENGINEERING**

*Mentee Information*

<b>Name</b>	AKANKSHA E L	<b>USN</b>	4PM16GV003								
<b>Date of Birth</b>	07-10-1998	<b>Aadhar Number</b>	509826074329								
<b>Mobile Number</b>	9731813780	<b>WhatsApp Number</b>	9731813780								
<b>Permanent Address</b>				<b>Address for Correspondence</b>							
MR. ESHWARA CHANDRA B.K. RUKHMINI NILAYA, WARD NO. 4 VEERANNA LAYOUT, POLICE CHOWKI VINOBA NAGAR, SHIVAMOGGA - 577204				MR. ESHWARA CHANDRA B.K. RUKHMINI NILAYA, WARD NO. 4 VEERANNA LAYOUT, POLICE CHOWKI VINOBA NAGAR, SHIVAMOGGA - 577204							
<b>Father's Name</b>	MR. ESHWARA CHANDRA B. K.										
<b>Mobile Number</b>	9845800273		<b>Father's Occupation</b>	BEO							
<b>Mother's Name</b>	MRS. VIJAYA LAKSHMI G.										
<b>Mobile Number</b>	9480277663		<b>Mother's Occupation</b>	HOUSE WIFE							
<b>SSLC%</b>	91.00	<b>PUC%</b>	86.00	<b>Diploma%</b>	NA	<b>CET Rank</b>	51555	<b>Category</b>	SC	<b>Quota</b>	CET



**PES Institute of Technology and Management**

(Affiliated to Vivesvaraya Technological University & Approved by AICTE, New Delhi)

Department of CV

Phone No: 08182640828

**Student's Appraisal Report (Details of Attendance & Test-1)**

Dear Sir/Madam,

As per the VTU norms governing the attendance requirement for BE students, each semester is considered as a unit and the student has to maintain attendance not less than a minimum of 85% in each subject. If the student fails to satisfy attendance requirement, he/she will not be eligible to appear for the examinations and shall have to repeat the whole semester. Further, three Internal Assessment (IA) tests for a maximum of marks will be conducted in every theory subject. At the end of the semester, the average of three tests will be considered as IA marks. The students are advised to score above a minimum of marks in all the theory subjects. In laboratory, the student has to score not less than a minimum of marks to be eligible to appear for the practical examination.

Following are the details of Attendance & Internal marks of your ward.

Name of Student:

USN:

Semester & Section :

SL No.	Subjects	Attendance Details From to			Marks Details of Test-1 Test	
		Classes Conducted	Classes Attended	Attendance %	Max Marks	Marks Obtained
1						
2						
3						
4						
5						
6						

Mentor :

Mentor Phone:

Department: CV

Coordinator

Signature of HOD

Signature of the Principal

---

Acknowledgement

Parents are requested to go through the performance of your ward and affix your signature here below and return it to the CV Department through your ward for our records.

Student's Signature

Parent's Signature

Name :

Name:

Mobile No. :

Mobile No. :

**9.2 Feedback analysis and reward /corrective measures taken, if any (10)**

Total Marks 9.00

Institute Marks : 9.00



**Feedback analysis and reward /corrective measures taken, if any (10)**

- **Feedback collected for all courses:** YES
- **Feedback collection process:** Through Computer Aided Application (GEMS) implemented at institute level.
- **Average Percentage of students who participate:** About 90%
- **Feedback analysis process:**
  - Performance of faculty is administered by Head of the Department.
  - A letter of feedback with remarks / suggestions for improvement (if any) will be given to each faculty.
  - The progress with respect to the feedback is addressed in the successive feedback cycle.
- **Basis of reward/ corrective measures:**
  - Feed back for the course is directly accessible to course instructor and department coordinator.
  - Feed back of each course is communicated to the Head of the Department by Department coordinator.
  - HOD directs the course instructor on the basis of the feedback and the measures are taken accordingly
- Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers:

	<b>Excellent</b>	<b>Very good</b>	<b>Good</b>	<b>Satisfactory</b>	<b>Not Satisfactory</b>
Syllabus Coverage					
Topics beyond Syllabus					
Effectiveness of technical content					
Communication skills					
Use of Technical Aids					
Pace of content coverage					
Motivation & Inspiration					
Hands on Demonstration					
Clarity					
Help and advice to students					
Feed back to students					

**Feedback on facilities**

- Feed back on facilities is collected for improving the facilities
- Feed back all the centralized facilities and department level facilities are collected from the students and are discussed among Head of the Department, Principal and Management.

The format for collecting the feedback on facilities is as mentioned below

**SERVICE SATISFACTION FEEDBACK**

Please provide your honest feedback on the following services on 1 to 5 Scale from Poor to Excellent

**Level of satisfaction: [1] Poor, [2] To improve, [3] Satisfactory, [4] Good, [5] Excellent**

SI. No	Quality of Services	Score	Deficient service – comments if any
1	Help from Office [Administration, Accounts section etc.]		
2	Assistance from Exam Section		
3	Activities of Dept. Technical forums (Associations)		
4	Classrooms and lab facilities		
5	Placement		
6	Library		
7	Internet and WIFI		
8	Canteen – Quality, Hygiene and Service		
9	Hostel (if applicable)		
10	Sports and Physical Education		
11	Cultural Forums		
12	Drinking water availability		
13	Toilets and cleanliness		
14	Classroom Teaching		
15	Training in Labs/Workshops/CAD etc		
16	Tutorial classes		
17	Mentoring Assistance		
18	Additional coaching for repeaters (in difficult subjects)		
19	Placement training (soft skills etc)		
20	Other services if any (Please indicate)		

**9.4 Self-Learning (5)**

Total Marks 4.00

**Self-Learning**

Facilities for Self-Learning:

- Students are offered facilities in form of
  - Centralized library with reference books
  - Digital Library with access to journals, articles and NPTEL videos
  - Department Library with hand books, National building codes and other standards for code of practice in construction.
- Evaluation of self learning is through assignments to the students and conduction of seminars

**9.5 Career Guidance, Training, Placement (10)**

**Career Guidance, Training, Placement**

- Institute has a centralized Career Development Cell, taking care of all training and placement activities.
- Career development Cell is lead by placement officer. Department of Civil Engineering has a designated placement coordinator.
- Career guidance, training and placement activities are planned as per the industry requirements.
- Guidance on pursuing higher studies, professional requirement is provided at department level, in coordination with career development cell.

Following are the details of trainings offered through CDC Cell

1. Academic year 2016-17

SL NO	COURSE	TRAINING DATES	DAYS	TRAINING DURATION	TRAINING COMPANY	TRAINER NAMES
1	B.E FINAL YEAR	12 <sup>th</sup> , 14 <sup>th</sup> Sep to 24 <sup>th</sup> Sep, 2016	11 DAYS	72 HOURS	CAREER PRIME	Mr. Aftab Mr. Yuvaraj Mr. Bharath Mr. Vishal Mr. Norman Mr. Munirasu Mr. Arjun Mr. Vinoth Mr. Balakrishna
2	B.E PRE-FINAL YEAR	14th to 16th Mar, 2017 & 6th to 8th April, 2017, 16th May, 2017	7 DAYS	48 HOURS	ETHNUS	Mr. Krishna Mr. Shivakumar Ms. Smruthi Ms. Arathi Mr. Sanjay



2	B.E PRE-FINAL YEAR	8th & 9th Sep, 2017 & 5th to 10th Feb, 2018	8 DAYS	48 HOURS	CAREER PRIME	Mr. Bhara Mr. Loges Ms. Ange Mr. Shara Mr. Justin Mr. Inba Ms. Yash Mr. Balak
3	B.E SECOND YEAR	17th & 18th August, 2017 & 5th & 6th, 19th & 20th 26th & 27th Feb,2018 & 5th & 6th March, 2018	Integrated training	24 HOURS	GENESIS	Mr. Krishn Mr. Shiva Ms. Smru Ms. Arath Mr. Sanja Ms. Mani Mr. Arjun Mr. Prabh Ms. Souja
4	B.E FIRST YEAR	18th & 19th August, 2017 & 5th & 6th, 19th & 20th 26th & 27th Feb,2018 & 5th & 6th March, 2018	Integrated training	24 HOURS	GENESIS	Mr. Aksha Mr. Vinse Mr. Vishw Mr.Sagar Ms.Rashr Ms. Vidhi Mrs.Maju Mr. Nidha Mr. Norm

### 3. Academic Year 2018-19

SL NO	COURSE	TRAINING DATES	DAYS	TRAINING DURATION	TRAINING COMPANY	TRAINER NAMES
1	B.E FINAL YEAR	17 <sup>th</sup> , 20 <sup>th</sup> Sep to 24 <sup>th</sup> to 30th Sep, 2018	11 DAYS	72 HOURS	CAREER PRIME	Mr. Arasu M T Mr. Shamanth G S Mr. Mahendra Kuma Mr. Yuvaraj V Mr. Balakrishna Ran

						Ms. Sowmya K Mr. Vigneshwar R S Ms. Dhivyalakshmi
2	B.E PRE-FINAL YEAR	8th, 9th Sep, 2018 & 15th & 16th Sep, 2018	4 DAYS	24 HOURS	CAREER PRIME	Mrs. Tanu Mr. Balakrishna Ran Mr. Inba Mr. Rakshith Mr. Nithin Ms. Yashaswini Mrs. Angel Mr. Justin Mr. Sharavanan
3	B.E SECOND YEAR	16th, 20th, 21st, 23rd, 24th, 27th, & 28th, Aug, 2018.	Integrated training	24 HOURS	GENESIS	Mr. Krishna Mr. Shivakumar Ms. Smruthi Ms. Arathi Mr. Sanjay Ms. Manisha Mr. Arjun Mr. Prabhu Ms. Soujanya
4	B.E FIRST YEAR	16th, 18th, 20th, 21st, 23rd, 24th, 25th, & 28th, Aug, 2018	Integrated training 3HOURS per Sections	12 HOURS	GENESIS	Mr. Akshay Mr. Vinsent Mr. Vishwas Mr.Sagar Ms.Rashmi Ms. Vidhi Mrs.Majula Mr. Nidhal Mr. Norman

Five students have become entrepreneurs and have started their own consultancy.

### 9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 7.00

Institute Marks : 7.00

Institute paves platform for cocurricular and extracurricular activities through department level activities and competitions. Cultural Events and Sports Events are conducted for students.

Following are the different categories of activity commonly adopted for cultural events in all years of study.

1. Music
2. Dance
3. Literacy
4. Theatre
5. Fine arts

Department coordinator for cultural activities is responsible for scheduling and conduction of activities, which is communicated to the students through Circulars / Notice

A sample of activities in sports and cultural events with NSS Activities at department level is as mentioned in the below tables

Sports at Department level

Sl. No.	Name of the event	Date
1	Kabbaddi	02/10/2018
2	Volley Ball	11/10/2018
3	Chess	20/02/2019
4	Foot Ball	21/02/2019
5	Cricket	26/02/2019
6	Throw Ball	02/04/2019

Cultural events at Department level

Sl. No.	Name of the event	Date
1	Pencil Sketch	29/10/2018
2	Rangoli	11/11/2018
3	Singing	25/10/2019
4	Poster making- Impact of junk food on health	27/09/2019

Sl. No.	Name of the event	Date
1	Blood Donation	28/12/2018
2	Clean Campus	05/10/2018
3	Swachha Bharath Abhiyan	05/10/2018

## 10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 110.00

### 10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

#### 10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

#### **Vision :**

To be the most preferred institution for engineering & management education, research and entrepreneurship by creating professionally superior and ethically strong global manpower.

#### **Mission :**

To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with industry and R&D institutes.

#### 10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

#### **Governing Council of the institute**

The Governing Council of the Institute is constituted as per the norms of AICTE, New Delhi, Affiliating University & Govt. of Karnataka and it is the supreme administrative body. The Governing Council of the institute has a robust framework for the governance and it works towards meeting the interests of all stake holders. The Governing Council meets a minimum of two times a year or whenever needed.

#### **The Governing Council of PESITM is given below**

Name	Designation	Position
<b>Prof. M R Doreswamy</b>	Chancellor, PES University, Bengaluru	<b>Chairman</b>
<b>Sri B Y Raghavendra</b>	Management Trustee, PES Trust (R), Shivamogga Member of Parliament, Shivamogga	<b>Member</b>
<b>Prof. Jawahar Doreswamy</b>	Treasurer, PES Institutions. Pro-Chancellor- PES University, Bengaluru	<b>Member</b>
<b>Sri B. Y. Vijayendra</b>	Joint Treasurer, PES Trust (R), Shivamogga	<b>Member</b>
<b>Smt. S. Y. Arunadevi</b>	Joint Secretary, PESITM & Trustee	<b>Member</b>



<b>Smt. S. Y. Umadevi</b>	Industry Executive	<b>Member</b>
<b>Smt. Tejaswini Raghavendra</b>	Trustee	<b>Member</b>
<b>Dr. S. S. Gupta</b>	Director, Rajiv Gandhi Institute for Steel Technology, JSW steels, Bellary, Karnataka. Member.	<b>Member</b>
<b>Dr. M R Shivakumar.</b>	Principal, SRSIT, Bangalore	<b>VTU Nominee Member.</b>
<b>Dr. G P Prabhukumar</b>	Emeritus Professor New Horizon College of Engineering, Bangalore	<b>Member</b>
<b>Dr. L S Nandeesh</b>	Professor of Chemistry, Academic Director and NAAC Consultant (Sri Jagadguru Renukacharya Education Society, Bangalore)	<b>Member</b>
<b>Prof. Dr. R. Nagaraja</b> .	Chief Coordinator – Administration, PES Trust (R), Shivamogga	<b>Member</b>
<b>Dr. Jagadeesh S N.</b>	HOD & Professor PESITM, Shivamogga	<b>Member</b>
<b>Dr. Guruvareddy</b>	Professor, Dept of ECE PESITM, Shivamogga.	<b>Member</b>
<b>Dr. Chaitanya Kumar M V</b>	Principal PESITM, Shivamogga	<b>Member Secretary</b>

### **Major Responsibilities of the Governing Council**

- To uphold the legal stature of the college in view of AICTE, UGC, State Government and affiliating University (VTU) or any other body or agency.
- To take decisions regarding the intake and addition or discontinuation of any program accordingly recommending the Principal to take formal steps with the affiliating body to put this into action.
- Fix the fee structure and any charges applicable in accordance with the recommendation of administrative bodies and the prescribed fee structure of affiliating university.
- Extension, Renovation or Procurement plans recommended by Core Committee.
- Decide the promotions or penalties as recommended by the Academic Committee.
- Approve the budget and recommend necessary corrections.
- Nominate and constitute other central committees for smooth discharge of responsibilities

### **Powers and Functions of the Governing Council**

The Governing Council shall exercise powers and discharge the functions as follows:

- Ensure proper management & maintenance of the institution in relation to land, infrastructure, equipment, and funds, including loans and grants received from AICTE, Central Government and Government of Karnataka.
- Ensure compliance with norms and standards prescribed by the Government of Karnataka and affiliating University.

- To ensure implementation of provision of acts, instructions, rules, and regulations prescribed by AICTE and Government of Karnataka in matters of service conditions of the staff relating to appointment, leave Provident Fund, age of retirement and disciplinary actions.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create a peaceful and favorable atmosphere for study free from ragging.

#### **Powers and Functions of Chairperson of Governing Council**

- The Chairperson shall ensure that the Governing Council is functioning properly to meet the desired deliverables.
- In the event of taking a vote on any decision and if a tie occurs, then the decision of Chairperson shall be final.
- The Chairperson shall ensure that the decisions taken in the Governing Council meeting are implemented by Member Secretary.

#### **Powers and Functions of Member Secretary of Governing Council**

- Principal of the institution, by default, is the Member Secretary of the Governing Council.
- Member Secretary executes the decisions taken in the Governing Council on behalf of the Governing Council.
- He would take correspondence on behalf of the Governing Council meeting in relation to the decisions taken in it and get it confirmed by the Chairperson and members present. With confirmation, the proceedings would be forwarded to AICTE, Government of Karnataka and affiliating University.
- He will exercise powers and functions as maybe imposed and assigned by the Governing Council from time to time.
- The Member Secretary would issue appointment letters to the staff selected by the Recruitment Committee after the approval from the sponsoring trust and the Governing Council of the institute.

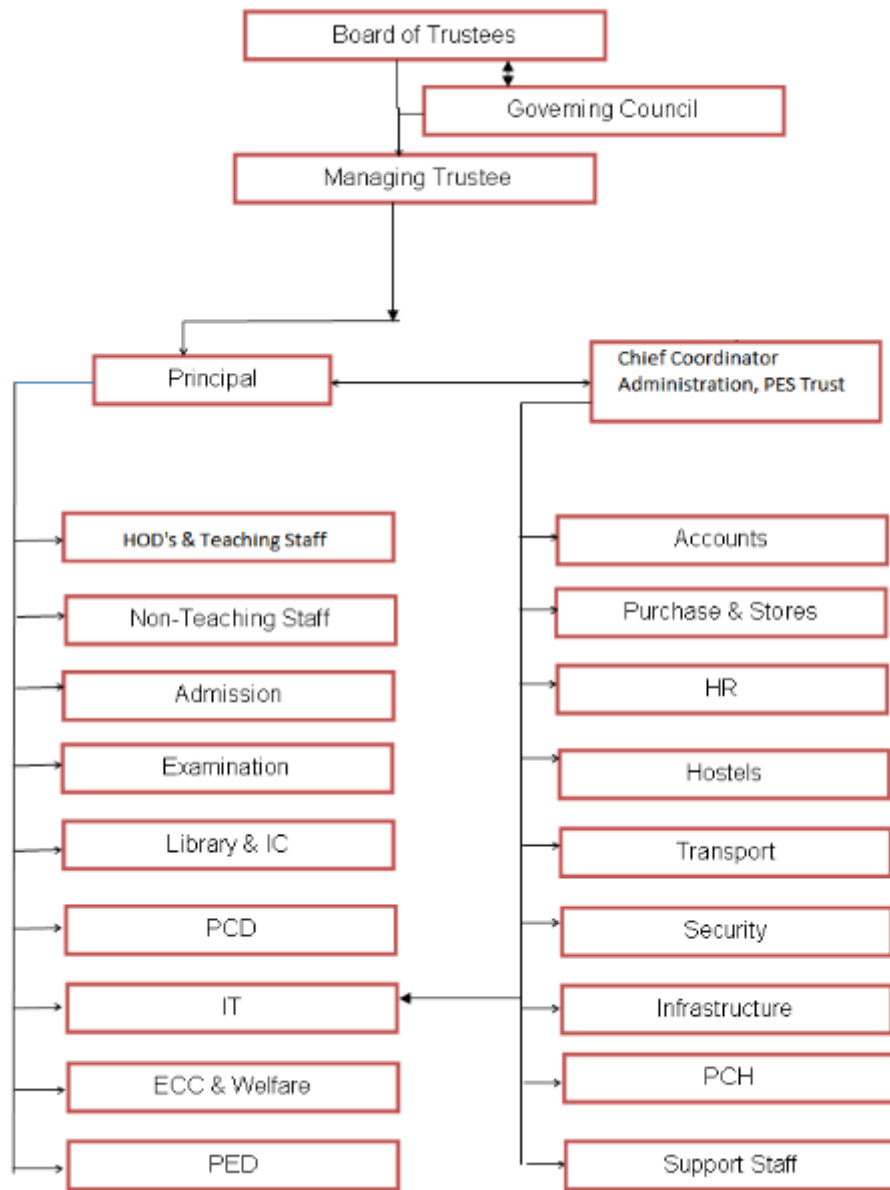


Fig 10.1: Organizational Chart

**Functions of key administrative positions**

Position	Functions
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Principal	<ul style="list-style-type: none"> <li>• He functions as the Head of the Institution and is the Member-Secretary of the GC.</li> <li>• He is responsible for the overall development of the Institution.</li> <li>• Ensure the attainment of the vision of the Institution through strategic mission.</li> <li>• Define quality policy and objectives.</li> <li>• Define &amp; delegate responsibilities of various positions in the organization.</li> <li>• He is the final authority for all academic, admission, administrative, co-curricular and extracurricular, research, placement, innovation, resource mobilization, planning and development, recruitment.</li> <li>• He also coordinate the needs of meeting statutory and regulatory requirements of the government (AICTE, UGC, DTE) and University (VTU).</li> <li>• He channelizes the growth and benchmarking activities of accreditation (NBA/NAAC) and affiliation (VTU) processes for the institute.</li> <li>• He is the single point contact (SPC) for external bodies (industries, academia, regulators, institutions/organizations, companies) and also for stakeholders: industries, parents, and alumni.</li> </ul>
Vice-Principal	<ul style="list-style-type: none"> <li>• To discharge the routine duty of Principal in his absence.</li> <li>• Head of the Internal Quality Assurance cell.</li> <li>• Alumni interaction.</li> <li>• Branding tasks &amp; admissions</li> <li>• Prepare and execute the academic calendar.</li> <li>• Oversee the teaching-learning process.</li> <li>• Carry out result analysis and submit corrective measures to Principal.</li> <li>• Initiate better teaching-learning methods.</li> <li>• Co-curricular activities.</li> <li>• Formation of the student council.</li> <li>• Sports &amp; Cultural activities.</li> </ul>

Head of Departments	<ul style="list-style-type: none"><li>• He / She is the functional and administrative head of the concerned department.</li><li>• He/she ensures the smooth running of the concerned department by laying goals and milestones of the department. Vision and Mission statements too are chalked out for streamlining all further actions.</li><li>• HOD builds and leads the team of required numbers of faculty members</li><li>• The HOD ensures planning, execution, troubleshooting of all academic activities (theory and lab classes), examination (CIE) along with supporting smooth conduction of VTU examinations, research and publication, projects and developmental activities.</li><li>• He/she coordinates intra (with IIC, T &amp; P and other depts. /centers at the institute) and inter (with other academia and industries) institutional communicational roles.</li><li>• HOD plans and organizes events (conferences, seminars, workshops, and training) and conducts industrial visits and guest lectures for the benefit of dept. (students and faculty members).</li><li>• He/she organizes meetings with stakeholders (particularly, parents) in the form of PTM.</li><li>• Develop Calendar of events, Timetables for each section/semester, Upkeep and maintain records of the department, maintain laboratories and assets, assign duties and monitor faculty performance, verifies faculty appraisal, benchmark the growth parameters, monitor mentoring of students by the mentors (faculty team), identify and execute action on departmental needs, develop team towards audits and compliance, monitor R&amp;D and project activities of the department, ensure up-keeping of departmental library, lead team towards publications and IP, seek MOUs from related industries.</li><li>• He/she renders all support to the team lead, Principal.</li><li>• He/she encourages and motivates the team to contribute to the positive growth of the department, in turn, the institution.</li></ul>
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<p>Manager, Training &amp; Placements</p>	<ul style="list-style-type: none"> <li>• Director T &amp; P is solely responsible for planning, connecting, organizing, culminating all activities leading to the placement needs of the graduating students.</li> <li>• He develops and nurtures contacts/connects with industries/companies/ organizations/alumni database in view of placement needs.</li> <li>• He ensures the smooth coordination with various stakeholders required for the process of placement.</li> <li>• He initiates the process of feedback collection from the visiting companies/organizations for offering placement and shares with concerned departments for better understanding and possible improvements in the subsequent sessions/years.</li> <li>• He coordinates activities for pool-in placement drives.</li> <li>• Facilitate career guidance to the students.</li> <li>• He significantly contributes to building the brand value of the institution.</li> </ul>
<p>I/C Library</p>	<ul style="list-style-type: none"> <li>• The Librarian is responsible for the resources of the Library and Information Centre comprising of assets in both hard and soft forms.</li> </ul> <p>The associated duties are:</p> <ul style="list-style-type: none"> <li>• He envisages the plans, initiates actions for addressing all possible needs of primary stakeholders - students, teachers and research scholars (via identifying and ordering books, reference material, journals, online resources, issue of resources and maintenance of records).</li> <li>• He with his team undertakes series of tasks towards optimal utilization and for maintenance of the library.</li> <li>• Maintain library discipline and culture.</li> <li>• Prepare annual budget for library</li> </ul>
<p>Director Physical Education</p>	<ul style="list-style-type: none"> <li>• Proposing an annual budget.</li> <li>• Creation and upkeep of sports facilities.</li> <li>• Purchasing of sport items.</li> <li>• Conduct training camps.</li> <li>• Ensure the smooth conduct of sports.</li> <li>• Encourage students to participate in regional / zonal / VTU tournaments.</li> </ul>

### 10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

Majority of the decisions within the department are made by the respective heads of the departments.

Sl. No	Name	Head of the department
1.	Dr. Jagadeesha S. N.	Computer Science & Engineering
2.	Dr. Hiremath M. N.	Civil Engineering
3.	Dr. Manoj Kumar	Electrical and Electronics Engineering
4.	Dr. Chandrappa D.N	Electronics and Communication Engineering
5.	Dr. Prasanna Kumar H. R.	Information Science & Engineering
6.	Dr. Basavarajappa Y H	Mechanical Engineering
7.	Dr. Prasanna Kumar T M	MBA

A number of committees are present in the college that is formed taking into the considerations of the stakeholders. There is diversification that ensures that the committees address any issues faced by the stake holders and also aims for the improvements under the purview of the respective committees. The various committees, their in-charge, roles and responsibilities & meeting details are given below:

#### 1. Academic Monitoring Committee (AMC)

Name	Position
Dr. S N Jagadeesha, HOD-CSE	Chairman
Dr. Guruva Reddy , Vice-Principal	Member
Mr. Rakesh, Dept. of ECE	Member
Dr. Girish, Dept. of ME	Member
Mr. Kiran Kumar, Dept. of EEE	Member
Dr. Manu, Dept. of CSE	Member
Dr. Pramod, Dept. of ISE	Member
Dr. ArvindMallik D M, Dept. of MBA	Member
Dr. Shivkumar, Dept. of Basic Science	Member

#### Roles & Responsibilities:

- The AMC thoroughly works on designing the educational process
- It continuously reviews and monitors the process keeping in view the emerging needs and expectations of the industry
- The AMC along with the strength of the faculty members continuously works on updating and restructuring the innovative skill sets for promoting academic excellence

- To verify faculty –academic pre-preparation and generate verification reports.
- To conduct monthly audit of course delivery and submit report to HOD.
- To conduct midterm & end term academic monitoring /verification and submit report to HOD
- To maintain departmental academic file
- To prepare departmental academic calendar
- To make sure that daily attendance report of each class is filled properly before submitting.
- To monitor works of class teacher and smooth conduction of academics.
- To conduct departmental audit per semester
- To conduct interdepartmental audit per semester
- To observe lecture conduction of faculty member along with senior faculty members.

## Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	30/10/2019	09	0
	16/01/2020	09	0
CAYm1	18/10/2018	06	3
	29/01/2019	09	0
	26/04/2019	09	0
CAYm2	20/10/2017	07	2
	29/01/2018	09	0
	27/04/2018	09	0
	26/07/2018	09	0
CAYm3	26/08/2016	09	0
	26/10/2016	07	2
	27/01/2017	09	0
	28/04/2017	09	0
	31/07/2017	08	1

## Time Table Committee

Name	Designation
Dr. Aveesh S T, Dept. of Mathematics	Coordinator



Mr. Shivanand D C, Dept. of M.E	Member
Mr. Rakesh M K, Dept. of Civil Engineering	Member
Mr. Raghavendra K, Dept. of CSE	Member
Mr. Vishnu V M, Dept. of ECE	Member
Mr. Arjun U, Dept. of ISE	Member
Mrs. Neetha H M, Dept. of EEE	Member
Dr. Chandru K, First Year	Member

### Roles & Responsibilities:

- Time-Table preparation for each department.
- To Prepare Individual Timetable & Room wise Timetable get approval by the Principal.
- Allotment of Classrooms, Labs, Tutorial Rooms etc.
- Correlate the timetable with the calendar of events of the department & College.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	22-01-2020	7	01
CAYm1	06-06-2019	8	00
	05-01-2019	8	00
CAYm2	12-06-2018	8	00
	08-01-2018	8	00
CAYm3	05-06-2017	7	00
	09-01-2017	7	00

### 2. Discipline Committee

Name	Position
Dr. Girisha L, Associate Professor , Dept. of ME	Chairman
Dr. Praveen Kumar C M, Asst. Professor, Dept. of Chemistry	Member
Mr. Rakesh, Asst. Professor, Dept. of Civil Engineering	Member
Mrs. Neetha, Asst. Professor, Dept. of EEE	Member
Mrs. Prathibha, Asst. Professor , Dept. of CSE	Member

Dr. Sendhil, Physical Director	Member
Dr. M N Hiremath, HOD- CV & Chief Warden – Boys Hostel	Member
Mrs. Yagnodhbhavi, Asst. Professor, Dept. of CV & Chief Warden – Girls Hostel	Member

### Roles & Responsibilities:

- To maintain and enforce strict discipline within the college campus.
- All the students should wear their ID Cards while they are in the campus and their respective class rooms.
- In case of any violation of dress code or disturbance in the class, the ID card will be confiscated from the student which will be handed over to the student on the same day with a warning and advice from the Disciplinary Committee Members.
- In case of any misbehavior or violation of the college rules, the ID cards of the students will be kept with the Disciplinary Committee Members till the enquiry is over.
- To enforce total prohibition of cell phone usage by the students within the college campus. Please note that cell phone is prohibited in the college campus and if a student is found carrying a cell phone, it will be taken away and handed over to the Principal.
- To monitor the movement of the students in the college and prevent students loitering around in the corridors during the college working hours.
- To ensure that all the students attend classes without bunking and prevent them from leaving the college early. Please note that no student can leave the college early without prior permission from the concerned authorities.
- Smoking is strictly prohibited in the college campus and ensures that this is being strictly followed.
- To ensure that students maintain complete silence in the library.
- To maintain proper discipline in the college canteen and student common boys/girl resting room during the college working hours.
- If any damage is caused to the college property by any student / group of students, the cost of the same will be recovered with a fine from the said student / group of this will be followed by disciplinary action.
- If any indiscipline is found by any of the students, warn them on the first instance. Take disciplinary action based on the rules and regulations of the committee, if the pattern of misconduct continues.
- Submit the enquiry report of any incidents/issues after conducting a committee meeting.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	17.08.2019	7	0
	28.09.2019	5	2
	23.09.2019	7	0
	26.11.2019	7	0
	19.12.2019	7	0
	25.02.2020	6	1
CAYm1	03.09.2018	7	0
	24.10.2018	7	0

	31.10.2018	7	0
	24.11.2018	5	2
	20.12.2018	7	0
	11.01.2019	6	1
	23.02.2019	7	0
	27.03.2019	7	0
	20.04.2019	7	0
	29.05.2019	7	0
	22.06.2019	7	0
CAYm2	26.09.2017	7	0
	21.10.2017	7	0
	24.11.2017	5	2
	29.12.2017	7	0
	02.02.2018	6	1
	30.03.2018	7	0
	26.04.2018	7	0
	31.05.2018	5	2
	23.06.2018	7	0

### 3. Anti-Ragging Committee

Name	Designation
Dr. Chaitanya Kumar M V,Principal	Chairman
Dr. Prasanna Kumar T M, HOD-MBA	Coordinator
Dr. Jagadeesha S N, HOD-CSE	Member
Dr. Manoj Kumar, HOD - EEE	Member
Dr. Shivkumar K, HOD-Chemistry	Member
Dr. Sendhil, Physical Education Director	Member
Dr. Basavarajappa Y H, HOD-M.E	Member
Dr. Prasanna Kumar H R, HOD-ISE	Member
Dr. M N Hiremath, HOD-Civil & Warden-Boys Hostel	Member
Dr. Chandrappa D N, HOD-ECE	Member
Dr. Aveesh, HOD-Maths	Member
Dr. PramodPai, HOD-Physics	Member
Mrs. Yagnodbhavi H M, Dept. of Civil Engg.	Member
Mr. Ramesh, Resident Warden – Boys Hostel	Member

Mrs. Manjula, Resident Warden – Girls Hostel	Member
Mr. SuhasBharadwaj, Student – ME	Member
Ms.SwathiSarang, Student - ISE	Member
Mr. Abhijith H K, Student – Civil Engg.	Member

### Roles & Responsibilities:

- Preventing the menace of ragging in the college and making the campus zero ragging zone.
- Ensure anti-ragging instructions are displayed at prominent places in college campus and hostels
- To make surprise raids in the college, hostels and other vulnerable places where students generally visit and where either the incidents of ragging have occurred or which are potentially prone to ragging.
- To conduct an on-the-spot enquiry into any incident of ragging referred to it by any member of the committee or any faculty as the case may be.
- If any such above incidents are observed, take immediate action to prevent the same and report the same to the principal without any delay.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	27/09/2019	18	0
	25/07/2019	14	4
CAYm1	09/08/2018	11	1
CAYm2	09/08/2017	12	0
CAYm3	25/08/2016	10	0

### 4. Co-curricular and Extra-Curricular Activities Committee

Name	Position
Dr. Prasanna Kumar T M, HOD-MBA	Chairman
Mr. Rakesh M K, Dept. of Civil Engineering	Member
Mrs. Deeksha Kamath, Dept. of Basic Science	Member
Mr. Shivayogappa H. J., Dept. Of ECE	Member
Mr. Puneeth B. H., Dept. of CSE	Member
Mr. Vinay S. K, Dept. of ISE	Member
Mrs. Neetha H. M., Dept. of EEE	Member
Mr. Maltesh Kumar Deshpande, Dept. of M.E	Member
Ms. Divya H. A, Dept. of Civil Engineering	Member

### Roles & Responsibilities:

- The Cultural Committee shall be responsible for all intra and inter collegiate cultural events in the Institute.

- To plan and schedule cultural events for the academic year.
- The Convener of the committee shall conduct a meeting of the committee to discuss and delegate tasks.
- To prepare the Annual Budget for various cultural events.
- Motivating students to participate in cultural events organized at College, University, National and International levels.
- Organizing cultural events for staff members

### Meetings

Academic Year	Date Meeting	No. of Members Attended	No. of Members Absent
CAY	17/11/2019	09	0
	17/02/2020	09	0
	24/02/2020	09	0
CAYm1	17/08/2018	08	0
	15/11/2018	07	1
	04/02/2019	08	0
	05/04/2019	08	0
CAYm2	19/08/2017	08	0
	14/11/2017	07	1
	03/02/2018	08	0
	12/02/2018	07	1
	26/02/2018	08	0
	19/05/2018	08	0
CAYm3	24/08/2016	08	0
	10/11/2016	08	0
	06/02/2017	07	1
	18/02/2017	05	3
	25/02/2017	08	0
	13/05/2017	08	0

### 5. Sports Committee

Name	Designation
Dr. Shivkumar, Professor, Basic Science	Chairman
Dr. Sendhil, PED	Member Secretary
Mr. Sunil M E, Dept. of CSE	Member
Mr. Shanthaveeresh, Dept. of EEE	Member

Mr. Shashank B, Dept. of ECE	Member
Mr. Arjun U, Dept. of ISE	Member
Mr. Sanjay, Dept. of Civil Engineering	Member
Mr. Ganesh U L, Dept. of M.E	Member
Mr. Praveen Gujjar, Dept. of MBA	Member

### Roles & Responsibilities:

- To provide an environment for physical development of the students.
- To develop team spirit among the students.
- To provide opportunity for the students to showcase their talent in sports.
- To promote sportsmanship among students by organizing various sports activities.
- Organizing various indoor and outdoor games during sports week.
- Motivating students to participate in sports events organized at University, national and international levels.
- Organizing sports events for staff members.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	01/08/2019	09	0
	23/01/2020	09	0
CAYm1	06/08/2018	09	0
	30/01/2019	09	0
CAYm2	02/08/2017	09	0
	05/01/2018	09	0
CAYm3	05/08/2016	09	0
	05/01/2017	09	0

### 6. NSS Committee

Name	Designation
Mr. Prasanna Nayak H, Dept. of ME	NSS Officer
Mr. Ganesh U L, Dept. of ME	Member
Mr. Puneeth B H, Dept. of CSE	Member
Mr. Amshith Kumar, Dept. of Civil Engineering	Member
Mr. Venkatesh, Dept. of ISE	Member
Mr. Shivayogi, Dept. of ECE	Member

Mr. Shantveeresh, Dept. of EEE	Member
Mr. Arjun J, Dept. of MBA	Member
Dr. Chandru K, First Year	Member

### Roles & Responsibilities:

- Develop a sense of social and civic responsibility among students.
- Utilize student's knowledge in finding practical solution to individual and community problems.
- Acquire leadership qualities and democratic attitude.
- Develop community service attitude during emergencies and natural disasters.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	07/08/2019	09	0
	11/02/2020	08	1
CAYm1	08/08/2018	07	0
	07/02/2019	08	0
CAYm2	11/08/2017	06	1
	13/02/2018	07	0
CAYm3	09/08/2016	08	0
	20/02/2017	07	0

### 7. Grievance Redressal Committee

Grievance Redressal Committee is constituted as per AICTE regulations. The committee shall meet within a week from the date of receipt of any petition/complaint from any student and take necessary action as deem fit and initiate necessary action for solving problem.

#### Mechanism for redressing grievance.

- The departmental level grievances are attended by the concerned Class Coordinators, Mentors / or Department Heads.
- Unresolved grievances at the departmental level are referred to the Grievance Redressal Committee of the institution.
- The committee shall send report with recommendations to all concerned within 15 days from the date of receipt of the complaint

*Note: Student can register complaint through online using college website.*

#### Grievance Redressal Committee: 2019-20

Name	Position
Dr. Chaintanya Kumar M V, Principal	Chairperson
Dr. Prasanna Kumar T M, HOD-MBA	Member

Mrs. Shyamala S. C., Assistant Professor, ECE	Member
Dr. Praveen Kumar C.M., Assistant Professor, Basic Science	Member
Mr. Roshan, Student - CSE	Special Invitee

### Roles & Responsibilities:

- To resolve student grievances related to both academic as well as non-academic matters.
- To ensure there is no bias or prejudices while dealing with students
- To promote and establish transparent practices related to students
- To create a conducive environment for learning

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	27/09/2019	05	0
CAYm1	09/08/2018	08	0
CAYm2	09/08/2017	08	0
CAYm3	25/08/2016	08	0

### 8. Anti-Sexual harassment Committee

Name	Designation
Dr. Sunitha B S, Associate –Professor , CSE	Chairperson
Mrs. Yagnodhbavi H M, Assistant Professor, Civil	Member
Mrs. Shymala S C, Assistant Professor, ECE	Member
Dr. Prasanna Kumar H R, HOD-ISE	Member
Mrs. Vani G S, Assistant Professor, ISE	Member
Mrs. Manjula, Office-Executive	Member

### Roles & Responsibilities:

- Prevent discrimination and sexual harassment against women (active and preventive in nature) in the campus, hostel and college premises by promoting gender amity among students.
- Prevention of sexual harassment to ensure safe learning environment for girl students
- To ensure provision of an educational environment that is free from sexual harassment.
- To address any oral, written or online complaint at WECARE about sexual harassment.

Sexual harassment includes oral or written statements of a sexual nature to a person , or in a person's presence.



- Aiming at ensuring support services to the victimized and termination of the harassment.
- If any such incidents occur / found, report the same to the Principal immediately.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09/09/2019	7	2
	18/11/2019	6	0
CAYm1	16/08/2018	9	2
	14/09/2020	6	0
CAYm2	09/08/2017	9	0
	23/10/2017	6	0
CAYm3	25/08/2016	9	0

### 9. Entrepreneur Development Cell (EDC)

Name	Position
Dr. Chandrappa D N, HOD- ECE	Coordinator
Dr. Basavarajappa Y H , HOD- ME	Member
Dr. Pramod S P, CDC	Member
Dr. Nandan N Shenoy, Dept. of Civil Engineering	Member
Mr. Kunja D Shinde, Dept. of ECE	Member
Mr. Santosh M B, Dept. of ME	Member
Mr. Pradeep K. Dept of CSE	Member
Mr. Kiran Kumar G R, Dept. of EEE	Member
Mr. Arjun J, Dept of MBA	Member

### Roles & Responsibilities:

- To create an entrepreneurship eco-system in the institute, where students would learn the technicalities of entrepreneurship and become job providers instead of job seekers.
- To be in continuous contact with District Industry Officer, KSFC and other Government and private nodal agencies.
- To arrange lectures on establishment of new start-ups, MSM enterprises.
- Strive to establish an incubation centre with Governmental funding.
- Create a strong network of mentors who would provide sector specific knowledge & real world practical guidance.
- To arrange Entrepreneurship training programs, conduct events and inspirational programs.

- Build a strong team with adequate knowledge and experience in guiding start-ups, building business plans, facilitating investments, building networks, etc.

## Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09.01.2020	08	Nil
CAYm1	04.10.2019	08	Nil
CAYm2	06/09/2018	08	Nil
CAYm3	16/04/2018	08	Nil

## 10. Training & Placement Cell

Name	Designation
Dr. Manoj Kumar, HOD-EEE	Chairman
Mr. Pramod S Prabhudev, Manager – T&P	Member Secretary
Mr. Kalpana S - EEE	Member
Mr. Chethan B R -ECE	Member
Dr. Likewin Thomos - CSE	Member
Mr. Arjun U – ISE	Member
Mr. Vinod Rampur - ME	Member
Mr. Sharath S K - Civil	Member
Mr. Arjun J - MBA	Member

### Roles & Responsibilities:

- To review the Training & Placement Performance of every outgoing batch of Graduates.
- To understand the Industry Specific Skills and being aware of trending technologies with respect every specialization.
- To analyze the academic performances of students and orient students about eligibility criteria of Companies.
- To ensure maximum student participation in all Training & development initiatives.
- To facilitate Internships, Guest talks, Industry Specific Workshops, Academic Projects,

Industry initiatives and campus recruitment drives. To maintain connectivity with all campus recruited students for mentoring and training programs.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	21 <sup>st</sup> Sep, 2019	9	0

CAYm1	24 <sup>th</sup> Jan, 2020	8	1
CAYm2	5 <sup>th</sup> oct, 2018	8	1
CAYm3	11 <sup>th</sup> Sep, 2017	9	1

## 11. Purchase Committee

Sl. No.	Designation	Name of the Person	Position
1	CCA, PES Trust (R) &	Dr. Nagaraja R	Chairman (Authorized to sign POs)
2	Principal, PESITM		Member (Authorized to sign POs)
3	Head /Section Head of the concerned Dept		Member
4	Senior Professor, of the concerned Dept		Member
5	Assistant Professor Dept. of Civil Engg.	Mr. Nandan N Shenoy	Member Secretary

### Roles & Responsibilities:

- To scrutinize requisitions for equipment of various departments and decide upon the necessity of purchasing the equipment, keeping in view the requirements specified by the University, AICTE, NBA, NAAC, GOI, GOK etc.
- To coordinate all the purchases of various Departments and ensure the procurement of required items as per schedule
- To call and scrutinize tenders/ quotations for items of purchase, with the help of department.
- To ensure that the supplies/services quoted for comply with what was requested.
- To carry out discussions and negotiations with suppliers and procure the best quality items with competitive price.
- To seek clarification from suppliers/service providers wherever necessary.
- To finalize the terms and conditions in the purchase order.
- To forward the negotiated /finalized quote for approval of the management through
- To arrange for sending the purchase order, inspection and acceptance/ rejection of the equipment received, with the help of department.
- To communicate the decision of the Committee to concerned department.
- Normally frequency of the CPC meeting should be once in 15 days; whereas in case of urgency and necessity CPC can meet as and when required.
- If the value of the purchase falls lesser than Rs 10,000/- (Ten Thousand Rupees), Purchase section/Dept with the consent of the chairman may proceed with purchasing the indented items directly without the approval of the Purchase committee.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	14/02/2020	05	00
CAYm1	23/08/2018	04	00
CAYm2	27/04/2017	04	00
CAYm3	26/08/2016	04	00

## 12. Budget Committee

Sl. No.	Designation	Name of the Person	Position
1	Governing Council Member	Mrs. Umadevi S Y	Chairperson
2	CCA, PES Trust (R)	Dr. Nagaraja R	Member
3	Principal, PESITM		Member
4	All Department HODs		Members
5	Accounts Manager		Member
6	Assistant Professor, Civil Engg	Mr. Nandan N Shenoy	Member Secretary

### Roles & Responsibilities:

- Ensuring that the financial elements of the institution are in accordance with its vision, mission, objectives and strategic plan.
- To assist PES Trust in fulfilling its fiduciary responsibility.
- To protect the organization from legal challenges and liabilities.
- To guard the organization against illegal, unethical, or incompetent activities by fiscal managers.
- To protect the organization from actual or apparent conflict of interest.
- To act as an advisory panel to the financial operations.
- To evaluate both the financial operations and the people in charge of it meticulously.
- To be vigilant of illegal, unethical, or incompetent financial dealings engaged in by individuals or groups that the organization deals with, or financial arrangements that may harm the organization.
- Participating in the annual audit and carry out meticulous pre-audit checks.
- Evaluating PESITM's fiscal operations, and those in charge of it.
- Reporting to the board of trustees about the financial conditions of PESITM, and/or any financial irregularities or inefficiencies regularly.
- To evaluate and approve budget of the programmes, activities, conferences, FDPs, SDPs, Workshops, Symposiums and/or any other academic, curricular and co-curricular, any other events of PESITM.
- Examine and scrutinize the annual budget of the Institute prepared by the principal and make suggestions and recommendations.

- To take up any other activity/responsibility as assigned by the Managing Trustee from time to time.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	09/12/2019	13	00
CAYm1	03/01/2019	13	00
CAYm2	06/12/2017	13	00
CAYm3	05/12/2016	13	00

### 13. Student Welfare Committee

Name	Designation
Dr. Prasanna Kumar H R, HOD-ISE	Chairman
Mrs. Yajnodhbavi, Dept. of Civil Engineering	Member
Mr. Amruth, Dept. of M.E	Member
Mr. Pradeep, Dept. of CSE	Member
Mrs. Neetha, Dept. of EEE	Member
Dr. Pramod, Dept. of ISE	Member
Mr. Praveen Kumar B H, Dept of MBA	Member
Dr. Chandru, Dept. Of Mathematics	Member

### Roles & Responsibilities:

- Addressing the students regarding issues with facilities available in the college.
- Addressing the issues regarding Ragging in the campus.
- Giving awareness to students regarding various scholarship schemes.
- Giving awareness about reporting issues through website link (we care), email to student welfare process, suggestion box
- Conducting the meeting at least two times in a year to resolve the student's issues and taking necessary actions. Meeting can be called as and when required, depending upon the seriousness of the issue.
- If any issues found, immediately report to the Principal.

### Meetings

Academic Year	Date of Meeting	No. of Members Attended	No. of Members Absent
CAY	06/08/2019	08	0

	31/10/2019	08	0
	27/01/2020	07	1
CAYm1	30/08/2018	09	0
	28/11/2018	08	2
	20/02/2019	09	0
CAYm2	31/08/2017	09	0
	28/12/2017	09	0
	12/02/2018	09	0
CAYm3	16/08/2016	08	1
	30/08/2016	09	0
	30/11/2017	09	0
	01/02/2017	07	2
	03/05/2017	09	0

#### 10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

Preparation of the budget is very important for running any departments. Every department at PESITM prepares a budget before the commencement of the academic year. Department Heads, with Senior Professors give the requisition to the Principal with regard to stationery, lab requirements, etc, for which budget allocations are approved by the Principal in discussion with the Management. Also, every Department Head is expected to give separate budget for FDPs, SDPs and any other activities planned by the department to Principal for approval.

Key administrative personnel are empowered to take decision with regard to spending money for any important operational purpose and the table given below outline financial powers for these personnel.

Sl.No.	Designation	Financial Power (in Rs.)
1	Chief Coordinator – Administration (CCA)	1,00,000.00
2	Principal	50,000.00
3	All HoDs	25,000.00

#### 10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

Information of PESITM Policies, Rules, Processes and Dissemination made available to the public on the college website. The URL is <http://pestrust.edu.in/pesitm>

**10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)**

Total Marks 26.00

**10.2.3 Availability of the audited statements on the institute's website (5)**

Institute Marks : 5.00

PESITM Financial year 2018-19, 2017-18, and 2016-17 Audit Reports made available on the college website. The URL is <https://pestrust.edu.in/pesitm/audit-report/>

**10.2.2 Utilization of allocated funds (15)**

Institute Marks : 12.00

The allocated funds are utilized properly and are adequate as per the Academic requirements. The budget funds are utilized on priority basis as per the requirements of each department, based on availability of funds. However, all recurring and non-recurring expenditure of departments is met in full (including salaries, lab consumables etc).

Year	Total budget (in laks)		Actual Expenditure (in laks)	
	Non recurring	Recurring	Non recurring	Recurring
2019-20	9644489	76352428	8767717	69411299
2018-19	10209929	109114409	9281754	99194918
2017-18	23141443	101139232	21037675	91944757
2016-17	10299274	82416287	9362976	74923898

**10.2.1 Adequacy of budget allocation (10)**

Institute Marks : 9.00

Before the commencement of every academic year a meeting of all the Heads of departments is convened and budgetary requirement is taken, which includes procurement of new equipment, maintenance/servicing of existing equipment, consumables required, building space and also books required for the library. For buildings detailed plans and estimates are prepared and approval is taken for the same in the Governing Council meetings. A detailed report of all the development works undertaken and their current status is presented in the Governing Council meeting. The budgetary requirements are met through the admission fees collected from the students and the revenue generated. The budget allocated at the beginning of the financial year is adequate for managing the expenditure during that year. In case of any additional funds required, the management provides the requisite support.

**Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years :**

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

**Table 1 - CFY 2019-20**

Total Income 146168166				Actual expenditure(till...): 108179016			Total No. Of Students 2023
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
115783734	0	0	30384432	69411299	8767717	30000000	53474.55

**Table 2 - CFYm1 2018-19**

Total Income 184698171				Actual expenditure(till...): 128476672			Total No. Of Students 2037
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
134562570	0	0	50135601	99194918	9281754	20000000	63071.51

**Table 3 - CFYm2 2017-18**

Total Income 181521628				Actual expenditure(till...): 132982432.22			Total No. Of Students 2123
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
131226010	0	0	50295618	91944757.22	21037675	20000000	62638.92

**Table 4 - CFYm3 2016-17**



Total Income 179185454				Actual expenditure(till...): 104286874			Total No. Of Students 2197
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
129510935	0	0	49674519	74923898	9362976	20000000	47467.85

Items	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till	Budgeted in 2017-18	Actual Expenses in 2017-18 till	Budgeted in 2016-17	Actual Expenses in 2016-17 till
Infrastructure Built-Up	279066.70	253697.00	4000000	2437173	10000000	10090809	2900000	2480133
Library	576816.00	567376.00	1500000	1249517	1500000	1315139	1100000	973480
Laboratory equipment	6729962	5189351	3620000	3281160	6050000	5133139	4300000	3759356
Laboratory consumables	286472.00	286472.00	900000	786085	1300000	1034857	300000	165886
Teaching and non-teaching staff salary	58138580.00	709336804	70000000	69895181	70000000	62841764	60000000	52735441
Maintenance and spares	971159.00	55742.00	6000000	5677020	6500000	6260659	4000000	3819908
R&D	100000	100000	100000	125000	100000	159000	100000	109000
Training and Travel	1608808	1528697	2800000	02441309	6350000	4790414	2825000	2398296
	2458310.00	721359.00	11000000	10896523	10000000	10139267	8800000	8275427
Others, specify	7556778.36	1410791.00	12000000	11940110	10000000	11668210	10000000	10093122
<b>Total</b>	<b>78705952.06</b>	<b>719450289.00</b>	<b>111920000</b>	<b>108729078</b>	<b>121800000</b>	<b>113433258</b>	<b>94325000</b>	<b>84810049</b>

**10.3 Program Specific Budget Allocation, Utilization (30)**

Total Marks 26.00

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

**Table 1 :: CFY 2019-20**

17292646		Actual expenditure (till...): 10594620		Total No. Of Students 251
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
9546944	7745702	5830065	4764555	42209.64

**Table 2 :: CFYm1 2018-19**

33427000		Actual expenditure (till...): 31971621		Total No. Of Students 266
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
16841000	16586000	16091447	15880174	120194.06

**Table 3 :: CFYm2 2017-18**

32212000		Actual expenditure (till...): 30417648		Total No. Of Students 250
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
16816000	15396000	15846348	14571300	121670.59

**Table 4 :: CFYm3 2016-17**

27465000		Actual expenditure (till...): 24626774		Total No. Of Students 269
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
15262500	12202500	13740069	10886705	91549.35

Items	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till	Budgeted in 2017-18	Actual Expenses in 2017-18 till	Budgeted in 2016-17	Actual Expenses in 2016-17 till
Laboratory equipment	1751242	1050000	220000	183750	1400000	1260232	3000000	2847957
Software	0	0	00	0	0	0	0	0
Laboratory consumable	95702	95702	40000	28131	200000	163118	50000	15700
Maintenance and spares	250000	120316	250000	122506	200000	95457	200000	68327
R & D	24000	12000	24000	12000	24000	12000	24000	12000
Training and Travel	50000	15510	35000	27523	20000	14816.5	10000	5407
	2600000	272921	10546000	10361025	10696000	10122288	8647500	7802766
<b>Total</b>	<b>4770944</b>	<b>1566449</b>	<b>11115000</b>	<b>10734935</b>	<b>12540000</b>	<b>11667911.5</b>	<b>11931500</b>	<b>10752157</b>

### 10.3.2 Utilization of allocated funds (20)

Institute Marks : 18.00

The allocated funds are utilized properly, and adequate as per the Academic requirements.

Year	Approved Budget	Actual Expenditure	Percentage of utilization
2019-20	17292646	10594620	61
2018-19	33427000	31971621	96
2017-18	32212000	30417648	94
2016-17	27465000	24626774	90

### 10.3.1 Adequacy of budget allocation (10)

Institute Marks : 8.00

The Head of the department instructs the concerned lab in charges to provide the budget required for the coming academic year. The Lab in charge provides, both, recurring and non recurring expenditure budget required for the lab. Based on the budget provided by various lab in charges the a final budget proposal will be prepared with the following items Laboratory equipment

- Laboratory consumables
- Maintenance and spares
- Miscellaneous expenses

The budget provided by the institute to the department is adequate to maintain and procure new items for the departments, to meet the academic requirements. The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments. The budget allocation and utilization for the last four years is adequate.

#### 10.4 Library and Internet (20)

Total Marks 18.00

##### 10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 8.00

### LIBRARY AND INFORMATION CENTER

The library occupies a place of pride and is most lively place in the campus. It is well-furnished and its pleasant ambience with spacious reading room creates conducive environment to faculty and students and serves as a creative and innovative partner in supporting teaching, learning and research activities of the college.

- **Relevance of available learning resources including e-resources**

Library is contributing to achieve the goal and mission the institution. The collection of the library is rich and diverse comprising both digital and print form. The collection includes books, e-books, Journals(print and electronic), project reports, Conference proceedings etc., Library gives utmost importance to collection development of learning materials. The department heads in consultation with the department faculties recommend the required learning materials to be added to the library. The number of titles and volumes are added every year in accordance with the norms and standards set by VTU and AICTE.

- **Accessibility to students**

#### Library Collection:

The rich collection of the library comprises the following resources:

Sl.	Learning / Reading Materials	Copies
1	Books (Print)	54,641
2	Books (Electronic)	23,629
3	Journals (print)	73
4	Journals (Electronic)	1,113
5	Magazines	15

6	News papers	14
7	CDs/DVDs	469
8	Project reports	315

A campus wide access to various E-resources subscribed to the library through VTU consortium is made through IP enabled access. Any number of users can access to resources at a time. Remote access to the E-resources is provided through KNIMBUS. Users can also access to digital resources through app called mLibrary. Digital library with 16 computers has been established to access E-resources and use NPTEL.

**List of Electronic resources subscribed:**

Sl.No	ELECTRONIC RESOURCES	TOTAL RESOURCES	URL to access
1	McGraw Hill Education	505 E-Books	<a href="http://mcgrawhilleducation.pdn.ipublishcentral.com/">http://mcgrawhilleducation.pdn.ipublishcentral.com/</a> ( <a href="http://mcgrawhilleducation.pdn.ipublishcentral.com/">http://mcgrawhilleducation.pdn.ipublishcentral.com/</a> )
2	Knimbus Open access resources	E-Books : 10,000+ E- Journals : 5700+	<a href="https://pesceb.new.knimbus.com/user#/home">https://pesceb.new.knimbus.com/user#/home</a> ( <a href="https://pesceb.new.knimbus.com/user#/home">https://pesceb.new.knimbus.com/user#/home</a> )
3	Taylor and francis (E-Books & Journals)	555 Journals + 4950 E-Books	<a href="http://www.tandfonline.com/">http://www.tandfonline.com/</a> ( <a href="http://www.tandfonline.com/">http://www.tandfonline.com/</a> )
4	Springer nature (E-Books & Journals)	690 Journals+ 13000 E-books	<a href="https://link.springer.com/">https://link.springer.com/</a> ( <a href="https://link.springer.com/">https://link.springer.com/</a> )
5	Sententia Grammar Tool	..	<a href="https://sententia.online/">https://sententia.online/</a> ( <a href="https://sententia.online/">https://sententia.online/</a> )
6	Emerald management collection (Journals)	120 JOURNALS	<a href="https://www.emeraldinsight.com/">https://www.emeraldinsight.com/</a> ( <a href="https://www.emeraldinsight.com/">https://www.emeraldinsight.com/</a> )
7	Institution of Civil Engineers (ICE Journals)	10 Journals + 21 Conference Proceedings	<a href="https://www.ice.org.uk/">https://www.ice.org.uk/</a> ( <a href="https://www.ice.org.uk/">https://www.ice.org.uk/</a> )
8	ELSEVIER – SCIENCEDIRECT (CSE)	436 E-Books (Perpetual Access)	<a href="https://www.sciencedirect.com/">https://www.sciencedirect.com/</a> ( <a href="https://www.sciencedirect.com/">https://www.sciencedirect.com/</a> )

9	New Age International	220 E-Books (Prepetual Access)	<a href="http://www.newagepublishers.com/servlet/nahome/">http://www.newagepublishers.com/servlet/nahome/</a> ( <a href="http://www.newagepublishers.com/servlet/nahome/">http://www.newagepublishers.com/servlet/nahome/</a> )
10	Packt E-Books	5002 E-Books (Perpetual Access)	<a href="https://prod.packtpub.com/in/">https://prod.packtpub.com/in/</a> ( <a href="https://prod.packtpub.com/in/">https://prod.packtpub.com/in/</a> )

### Area and Seating Capacity:

Total area of library is 1171.65 Sq. Mtr.

Seating capacity is 120

### Library hours:

Library is functional on all week days and remains open for 12 hours a day.

#### Working hours of the library

Monday - Friday : 8.00 a.m. to 8.00 p.m.

Saturday : 8.00 a.m. to 5.00p.m.

Sunday : 9.00 a.m. to 12.00 p.m.

### Library staff:

There are 8 library staff working in library in shifts with 4 staff with professional degree and 4 non professionals

#### Staff details

Sl. No.	Name	Designation	Qualification
1.	Chandrashekar K. L	Senior Librarian	M.Sc. (lib & Inf science), M.Phil, KSET (PhD)
2.	Raja A	Asst. libn	M.L.I.Sc,
3.	Chandrashekar V. M	Asst. libn	M.L.I.Sc,
4.	Prakash R	Asst. libn	M.L.I.Sc,
5.	Chetan Kumar S. B	Libray Assistant	B.A. (B.L.I. Sc.)

6.	Sunanda M C	Libray Assistant	ITI
7.	Tulasi R	Libray Assistant	PUC
8.	Uday Kumar K	Libraty Attendant	SSLC

### Computerisation of library activities :

Computerisation of library activities is done using LIBSOFT software. All the activities of library viz. Acquisition, cataloguing, circulation (Issue/Return), Online public access Catalogue (OPAC). For easy handling of data Barcode technology is also used to barcode learning materials.

### Services provided:

Sl. No.	Services	Descriptions
1.	Reference	Separate section is available in the first floor of library with the collection of 3500 reference copies
2.	Circulation service	Issue and return of books on loan for a period of 14 days
3.	Reprography	Photocopy facility is made available inside the library
5.	Information deployment and notification (Current Awareness service)	Newly procured books are displayed at the entrance of the library and also the list is hosted on to the library website. E-mail alerts are also sent.
6.	Internet Access	Digital library with 16 computers with internet at 10mbps is established for the benefit of users in the library.
7.	Bibliography compilation	Bibliographic compilation of Journal articles.
8.	In-house/remote access to e-resources	All the subscribed resources are accessible in house via LAN and remote access is provided through Knimbus.



9.	User Orientation	Orientation is conducted once in every semester compulsorily and as and when demand placed by users.
10.	Assistance in searching database	User will be assisted in searching database in digital library by library staff.
11	Book bank	Book bank facility for all students under which students can borrow 3-4 books for a whole semester and for SC/ST students 2 extra books under SC/ST book bank scheme.
12	Online public Access catalogue(WEB OPAC)	OPAC will provide the bibliographical details of books, Journal articles.
13	Institution Repository	Scholarly publications of faculty members, Old Question papers, Newspaper clippings and other reading materials are also made available for students. Over 6000 items are available.

- **Support to students for self-learning activities**

The Library provides excellent facilities and academic ambience for its users for self-learning activities with following initiatives

- NPTEL (National programme in Enhanced learning):** Library has established separate NPTEL server to host NPTEL videos which can be accessed via intranet within the campus. One can access the videos in the entire campus without internet. It offers more than 20000 videos of different streams of engineering and Management. These videos serve as a supplement to classroom teaching and learning activities.
- SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) and MOOC (Massive Open Online Courses):** Library has made arrangements for the user to access SWAYAM and MOOC. We encourage students to take online courses.
- e-PG Pathshala:** e-PG Pathshala is an initiative of the MHRD under its National Mission on Education through ICT (NME-ICT). Link to e-PG Pathshala is provided to create awareness and to encourage students to take online courses.
- Shodhganga:** The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. Link to Shodhganga is provided to create awareness and to encourage students to use it.
- Open access resources:** Link of many open access resources is provided which helps in self-study of the students.

- f. **National Digital library:** Our library has obtained Institutional membership of NDL. We enroll our students and faculty to NDL and encourage to uses lakhs of resources available freely
- g. **DELNET :** Institution is member of DELNET. DELNET offers across to nearly 1.75 crore records of books, periodicals, articles, thesis and dissertations and other databases. Besides this also provides inter library loan and document delivery services all its member libraries.

**10.4.2 Internet (10)**

Institute Marks : 10.00

Name of the Internet provider	BSNL and Touches Communication (AIRTEL)
Available band width	105 MBPS
WiFi availability	Yes, The Campus is Wi-Fi enabled and about 24 Accss Points installed
Internet access in labs, classrooms, library and offices of all Departments	1) Computer labs are enabled with LAN, and on request basis Internet can be accessed in labs through Ethernet. Registered devices allowed to access Wi-Fi in the building. 2) Library equipped with browsing center
Security arrangements	1) Dedicated Cyber building will be used for Internet connection. 2) With 16 systems having internet connection with 16 wireless routers installed for Wi-Fi security protection

Annexure I  
**(A) PROGRAM OUTCOME (POs)**

Engineering Graduates will be able to:

1. **Engineering Knowledge** : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex 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.
11. **Project management and finance**: 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 projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**(B) PROGRAM SPECIFIC OUTCOME (PSOs)**

PSO1	Plan, Analyze, Design, Execute and Maintain cost effective Civil Engineering structures to pursue opportunities for personal and professional growth as well as higher studies
PSO2	Take up Entrepreneurship, Research and Development and demonstrate leadership skills
PSO3	Demonstrate professional integrity and ethical values for sustainable civil society

# Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

## Head of the Institute

Name : Dr. Chaitanya Kumar M V

Designation : Principal, PES Institute of Technology & Management,  
Shivamogga

Signature :

*ce:lj'd*  
14/3/2020

Seal of The Institution :



Place : Shivamogga

Date : 14-03-2020 14:45:30

