

# Geethanjali College of Engineering and Technology

CHEERYAL (V), KEESARA (M), R.R.DIST-501301, ANDHRAPRADESH

## Department of Computer Science & Engineering

Circular

Date: 15-12-2016

Sub: CSE Program Assessment Committee – Formation for Academic year 2016-2017 Reg

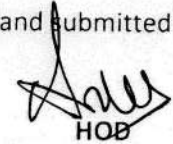
The main objective of the Assessment Committee is to Refine/Strengthen the PEO's ,Course Objectives and Outcomes based on the Dept. Advisory Committee (DAC) Suggestions.


Program Assessment Committee with the following composition is formed for the Academic year 2016-17 with the following terms and conditions

S.No	Name of the Staff Member	
1	Dr. S. Nagendra Kumar	Chairman
2	Dr. D.S.R. Murthy	Convener
3	Dr.S.Udaya kumar susarla	
4	Dr. K.Srinivas	
5	Mr. Chandra Kanth	Member
6	Mrs.A.sreelakshmi	
7	Mrs.Lalitha	
8	Mrs.Lokeshwari	

Terms and Conditions:

1. The committee should meet at least once in every semester
2. Proceedings of the committee should be prepared within 48 hrs of every meeting and submitted to principal.

  
HOB

  
PRINCIPAL  
Geethanjali College of Engg. Techn.  
Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501301

Head  
Dept. of Computer Science & Engg  
Geethanjali College of Engg. & Techn.  
Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501301

Hyderabad,

27-12-2016.

**Circular**

This is to inform to all the members of the Program Assessment Committee that, a review meeting is scheduled on 29-12-2016 at 2:00PM.

**Agenda:**

- CO assessments of A.Y:2015-16 IIsem is being reviewed.
- IQAC cell reports were reviewed

**Venue:** CSE Department Seminar Hall, 3<sup>rd</sup> Floor

**Copy to**

1. All the Department PAC members
2. PA to Principal

  
(Dr.S.Nagendra Kumar)

HOD-CSE

Chairman PAC

  
**PRINCIPAL**  
Geethanjali College of Engg. Tech.  
Cheeruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

Head  
Dept. of Computer Science & Engg  
Geethanjali College of Engg. & Tech.  
Cheeruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 301

Programme Assessment Committee

Minutes of Meeting

venue: CSE Department seminar hall

29<sup>th</sup> Dec, 2016

0PM

Members Present:

- Dr.S.Udaya Kumar Susarla ,Principal, GCET
- Dr.S.Nagendra Kumar, Professor(chair person)
- Dr.D.S.R. Murthy , Professor
- Dr.K.Srinivas, Professor
- Mr.Chandra Kanth, Professor
- Mrs.A.Sreelakshmi,Associate Professor
- Mrs. Lalitha , Associate Professor
- Mrs. G.Lokeshwari, Associate Professor

Agenda

1. Course Assessment of 2015-16 II-sem is being reviewed
2. IQAC cell reports review
3. Reviewing Autonomous Syllabus with respect to 2015-16 course Assessment

Minutes of meeting

Guidelines are to be passed to faculty to write effective course outcomes which needs to be measured.

Students need to be motivated to participate in co curricular activities and certifications that would help them in their career

Based on the review of course assessments of A.Y;2015-16 it was observed that FLAT course outcome Assessment was 70.79%

IQAC reports on student feedbacks,surveys are being reviewed and necessary actions are indicated

Action item

FLAT is observed to have the less course assessment so the instructor is instructed to conduct more number of tutorial classes



  
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- Depending on the period(3or4) reduce the content of the syllabus, which is not most important
- CN and OS syllabus seems to be very vast try to give one tutorial hour to manage the same
- Exercise(DES algorithm)can be removed as they will be discussed in network security subject
- Few corrections were made on Formal Language and Automata Theory
- Look for basics and important things during curriculum design
- Usage of open source tools for performing lab exercises in CNOS lab
- Adhoc Sensor Networks syllabus seems to be vast, if needed any corrections can be made so
- Identify the faculty who can teach ASN,Soft Computing and Data Analytics. so that teaching to the students become easier as the syllabus is Advance and recent
- Revise IV-I and IV-II subjects and lab syllabus
- Care should be taken while designing the Course Outcomes(CO's)
- Preferably one textbook for system simulation

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S.No.	Regulation	Batch	Branch	Academic Year	Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment	
1	R-13	2014-18	CSE	2015-16	II	2	Computer Organization	M.Rajakrishna kumar	A	79.42	82.2225	
								M.Rajakrishna kumar	B	83.51		
								B.Maninder	C	84.55		
								B.Maninder	D	81.41		
2	R-13	2014-18	CSE	2015-16	II	2	DataBase Management System	Dr.S.Nagender Kumar	A	82	79.6125	
								Dr.S.Nagender Kumar	B	83.14		
								Madhuri Agarwal	C	79.63		
								Madhuri Agarwal	D	73.68		
3	R-13	2014-18	CSE	2015-16	II	2	Formal Language of Automata Theory	GVS Acharyulu	A	75.28	70.7925	
								GVS Acharyulu	B	76.21		
								DSR Murthy	C	66.24		
								DSR Murthy	D	65.44		
4	R-13	2014-18	CSE	2015-16	II	2	Jaya Programming	N.Swapna	A	77.15	76.1175	
								N.Swapna	B	75.72		
								A.Sriakshmi	C	76.02		
								A.Sriakshmi	D	75.58		
5	R-13	2014-18	CSE	2015-16	II	2	Environmental Science	J.Bhargavi	A	82.75	79.315	
								K.Swaroopa	B	77.23		
								K.Swaroopa	C	78.1		
								K.Swaroopa	D	79.18		
6	R-13	2014-18	CSE	2015-16	II	2	Design Analysis of Algorithms	M.Srinivas	A	81.7	78.445	
								M.Srinivas	B	82.22		
								Venkateshwarlu	C	77.71		
								Venkateshwarlu	D	72.15		
7			CSE								#DIV/0!	
8			CSE									#DIV/0!
9			CSE									#DIV/0!
10			CSE									#DIV/0!

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A.Y : 2015-16

**Final course Assessments**  
 Geethanjali College of Engineering and Technology,  
 Department of CSE  
 Course Assessments

S.No.	Regulation	Batch	Branch	Academic Year	Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment
1	R-13	2012-16	CSE	2015-16	III	2	Web Technologies	S.Ramanjaneyulu	A	82.91	82.8425
								S.Ramanjaneyulu	B	86.4	
								Swathi	C	83.91	
								Swathi	D	78.15	
2	R-13	2013-17	CSE	2015-16	III	2	Information Security	N.Radhika Amateswari	A	77.08	79.835
								N.Radhika Amateswari	B	75.74	
								P.Harirha	C	85.16	
								P.Harirha	D	81.36	
3	R-13	2013-17	CSE	2015-16	III	2	Information Security Management	G.Lokeshwari	A	74.51	77.0875
								G.Lokeshwari	B	72.03	
								M.Vijaya Bhasker Reddy	C	79.15	
								M.Vijaya Bhasker Reddy	D	82.66	
4	R-13	2013-17	CSE	2015-16	III	2	Object Oriented Analysis and Design	Preeti Prasada	A	83.94	88.535
								Preeti Prasada	B	81.99	
								K.Anusha	C	97.63	
								K.Anusha	D	90.58	
5	R-13	2013-17	CSE	2015-16	III	2	Software Testing and Methodologies	Lalitha	A	86.48	84.895
								Lalitha	B	78.61	
								ThirupatiRao	C	91.74	
								ThirupatiRao	D	82.75	
6	R-13	2013-17	CSE	2015-16	III	2	Managerial Economics and Financial Accounting	A.P.S Jyothi	A	77.7	76.215
								Naupal Reddy	B	73.17	
								Upender	C	74.99	
								Upender	D	79	
7			CSE								#DIV/0!
8			CSE								#DIV/0!
9			CSE								#DIV/0!
10			CSE								#DIV/0!

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S.No.	Regulation	Batch	Branch	Academic Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment
1	R-09	2012-16	CSE	2015-16	2	Adhoc & Sensor Networks	Vijay Bhaskar	A	95.61	95.345
							Vijay Bhaskar	B	95.08	
								C		
								D		
2	R-09	2012-16	CSE	2015-16	2	Database Security	Vishwa Shanthi	A	81.25	81.25
								B		
								C		
								D		
3	R-09	2012-16	CSE	2015-16	2	Web Services	Manam Vamshi Krishna	A	81.78	82.6766667
							Shiva Narayana Reddy	B	85.92	
							G Swpana	C	80.33	
								D		
4			CSE					A		#DIV/0!
								B		
								C		
								D		
5			CSE					A		#DIV/0!
								B		
								C		
								D		
6			CSE					A		#DIV/0!
								B		
								C		
								D		
7			CSE					A		#DIV/0!
								B		
								C		
								D		
8			CSE					A		#DIV/0!
								B		
								C		
								D		
9			CSE					A		#DIV/0!
								B		
								C		
								D		
10			CSE					A		#DIV/0!
								B		
								C		
								D		

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Geethanjali College of Engg. Tech  
(Cheerlaj (V), Keesara (M), R.R. Dist. (A.P.) - 501 301)

Hyderabad,

20-06-2016.

**Circular**

This is to inform to all the members of the Program Assessment Committee that, a review meeting is scheduled on 22-06-2016 at 2:00PM.

**Agenda:**

- Course assessments of A.Y:2015-16 Isem is being reviewed.
- Review of PO assessment of 2012-16 batch
- IQAC cell reports were reviewed

**Venue:** CSE Department Seminar Hall, 3rd Floor

**Copy to**

1.All the Department PAC members

2.PA to Principal

(Dr.S.Nagendra Kumar)

HOD-CSE

Chairman PAC

*SPK*

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*[Signature]*  
**Head**  
Dept. of Computer Science & Engg  
Geethanjali College of Engg. & Tech.  
Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301



# Geethanjali College of Engineering and Technology

CHEERYAL (V), KEESARA (M), R.R.DIST-501301, ANDHRAPRADESH

## Department of Computer Science & Engineering

Circular

Date: 14-06-2016

Sub: CSE Program Assessment Committee – Formation for Academic year 2016-2017 Reg - <sup>28 ew</sup>

The main objective of the Assessment Committee is to Refine/Strengthen the PEO's ,Course Objectives and Outcomes based on the Dept. Advisory Committee (DAC) Suggestions.

Program Assessment Committee with the following composition is formed for the Academic year 2016-17 with the following terms and conditions

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1	Dr. S. Nagendra Kumar	Chairman
2	Dr. D.S.R. Murthy	Convener
3	Dr.S.Udaya kumar susarla	Member
4	Dr. K.Srinivas	
5	Mr. Chandra Kanth	
6	Mrs.A.sreelakshmi	
7	Mr.Raja Krishna Kumar	
8	Mr.M.Srinivas	
9	Mrs.Esther Varma	


Terms and Conditions:

1. The committee should meet at least once in every semester
2. Proceedings of the committee should be prepared within 48 hrs of every meeting and submitted to principal.

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Head  
Dept. of Computer Science & Engg  
Geethanjali College of Engg & Tech  
Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501301

**Department of CSE****Programme Assessment Committee****Minutes of Meeting**

22 J

**Venue: CSE Department seminar hall****22 June, 2016****2:00PM****Members Present:**

- Dr.S.Udaya Kumar Susarla ,Principal, GCET
- Dr.S.Nagendra Kumar, Professor(chair person)
- Dr.D.S.R. Murthy , Professor
- Dr.k.Srinivas, Professor
- Mr. Chandra Kanth, Professor
- Mrs.A.Sreelakshmi,Associate Professor
- Mr.Raja Krishna Kumar,Associate Professor
- Mr.M.srinivas,Associate Professor
- Mrs.Esher Varma, Associate Professor

**Agenda**

1. Redefining Course ,PO and PEO assessment process
2. Course Assessment of A.Y:2015-16 Isem is being reviewed
3. Review of PO assessment of 2012-2016 batch.
4. Course End survey questionnaire

**Minutes of Meeting**

- Course Assessment process is redefined to measure course assessment at CO level by considering the same rubrics Subjective exam marks, Objective exam marks, Assignment marks, Tutorial assessment giving appropriate weightage as mentioned below

ASSESSMENT TOOL	Weightage	Target	Frequency	DESCRIPTION	Attainment Levels
Subjective Internal Exam marks	20%	60%	Per Semester	Subjective Internal exam is used to assess the student's knowledge gained in the course. Students need to write two subjective internal exams per semester .The assessment is based on the marks obtained by the student in	60% of target-1 70% of target-2 80% of target-3

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## Department of CSE

				Subjective internal examination which is conducted for 10 marks.	
Objective Internal Exam marks	10%	Class Average	Per Semester	Objective Internal exam is used to assess the student's knowledge gained in the course. Students need to write two Objective internal exams per semester. The assessment is based on the marks obtained by the student in Objective internal examination which is conducted for 10 marks.	40% of target-1 50% of target-2 60% of target-3
Assignments	5%	60%	Per Semester	Students are given with assignments where they need to apply their knowledge gained in the course study by solving the given problem/tasks. Assignments assessment is used as one of the component of internal marks for 5 marks.	60% of target-1 70% of target-2 80% of target-3
Tutorials	5%	60%	Per Semester	Tutorial is conducted once in a week to assess the capability of students in solving problems using the concepts studied in that particular week. The assessment is based on the number of students able to solve the problems in a particular tutorial session	60% of target-1 70% of target-2 80% of target-3
External Marks	60%	Class Average	Per Semester	The external examination which is conducted and evaluated by the university is used as direct measure of the student's attainment level of the course outcomes. End exam is conducted for 75 marks	40% of target-1 50% of target-2 60% of target-3

Direct Assessment Rubrics for Lab:

*Principals*  
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ASSESSMENT TOOL	Weightage	Target	Frequency	DESCRIPTION	Attainment Levels
Lab Internal Exam marks	40%	60%	Per Semester	Lab Assessment is used to assess student's practical knowledge with their designing capabilities. Lab internal evaluation is for 25 marks includes 10 marks for test and 15 marks for day to day assessment (5 marks for observation, 5 marks for lab workbook and 5 marks for comprehensive viva). Lab internal is being conducted twice in a semester.	60% of target-1 70% of target-2 80% of target-3
Lab External Exam	60%	60%	Per Semester	The Lab external examination is conducted for 75 marks and is used as direct measure of the student's attainment level of the lab course outcomes. It assesses the capability of student to design algorithm, write code and execute. External exam is conducted by an Internal examiner and External Examiner	60% of target-1 70% of target-2 80% of target-3

## Indirect Assessment

ASSESSMENT TOOL	Weightage	Target	Frequency	DESCRIPTION	Attainment Levels
Course End Survey	40%	60%	Per Semester	Course end survey is conducted at the end of semester to take the students feedback on their level of attainment of the course outcomes. A feed back will be taken	60% of target-1 70% of target-2 80% of target-3

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**Department of CSE**

				from the student at the end of every semester to assess the level of attainment of Course outcomes.	
Teaching Learning process feedback	60%	60%	Twice in a semester	Online Feedback on teaching learning process is conducted twice a semester before conducting Internal examinations.	60% of target-1 70% of target-2 80% of target-3

Overall attainment of course=75%\* direct attainment for theory+25% \*indirect attainment

Overall attainment for Lab=75% \* direct attainment for Lab + 25% \* indirect attainment

- PO assessment process is also redefined to assess the POs from weighted attainment of CO based on CO to PO mapping. Weightings for direct and indirect attainments is redefined to 75% and 25% from 60% and 40% respectively with the suggestions from the members of PAC considering to give less weightage to surveys and more for CO level attainment  
Attainment of PO/PSO=75% of Direct attainment +25% of indirect attainment
- PEO assessment is also redefined with 75% and 25% weighting factor for direct and indirect attainments
- The course assessments of A.Y:2015-16 is verified and reviewed
- Based on the review of course assessments of academic year 2015-16 it was observed that FLAT course outcome assessment is 70.79% .
- PO assessment of 2012-2016 batch is reviewed
- The PO assessments of 2012-16 batch is satisfactory with respect to targets
- Course end survey questionnaire is being modified to include CO level survey questions to enable proper CO assessments.
- Mapping of other curricular components like comprehensive viva, mini projects , major projects and technical seminar is being discussed and finalized.

  
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 Geethanjali College of Engg. Tech.  
 Chennai-60, Keesari (M), R.R. Dist. (A.P.) - 501 301

S.No.	Regulation	Batch	Branch	Academic Year	Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment
1	R-09	2012-16	CSE	2015-16	IV	1	Software Testing Methodologies	A Lalitha	A	82.14	82.79
								N Radhika Amreshwari	B	85.94	
								A Lalitha	C	80.29	
								M Vamsi Krishna	D		
2	R-09	2012-16	CSE	2015-16	IV	1	Linux Programming	M Vamsi Krishna	A	78.71	79.2333333
								Shiva Narayana Reddy	B	83.56	
								M Vamsi Krishna	C	75.43	
								E Balakrishnarajuna Rao	D		
3	R-09	2012-16	CSE	2015-16	IV	1	Dataware housing & Data Mining	Y Swathi Teja	A	84.58	81.1
								Y Swathi Teja	B	86.04	
								Y Swathi Teja	C	72.68	
								K Anusha	D	90.13	
4	R-09	2012-16	CSE	2015-16	IV	1	Design Patterns	K Vijay Bhaskar	A	95.61	91.2833333
								K Anusha	B	88.11	
								P Swathi	C	76.55	
								B Subba Rao	D	86.78	
5	R-09	2012-16	CSE	2015-16	IV	1	Computer Graphics	P Swathi	A	74.25	79.1933333
								Y Phani Kishore	B	81.31	
								G Prasona	C	74.47	
								Y Phani Kishore	D	74.35	
6	R-09	2012-16	CSE	2015-16	IV	1	Cloud Computing	Y Phani Kishore	A		76.71
								G Prasona	B		
								Y Phani Kishore	C		
								Y Phani Kishore	D		
7			CSE						A		#DIV/0!
									B		
									C		
									D		
8			CSE						A		#DIV/0!
									B		
									C		
									D		
9			CSE						A		#DIV/0!
									B		
									C		
									D		
10			CSE						A		#DIV/0!
									B		
									C		
									D		

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Geethanjali College of Engineering and Technology  
Engg. Techn.  
P. 501300

Sheet I  
Geethanjali College of Engineering and Technology  
Department of CSE  
Course Assessments

S.No.	Regulation	Batch	Branch	Academic Year	Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment
1	R-13	2013-17	CSE	2015-16	III	1	inciples of Programming Language	P. Haritha	A	78.48	78.6725
								S. Ramanjaneyulu	B	79.16	
								S. Ramanjaneyulu	C	79.05	
								S. Ramanjaneyulu	D	78	
2	R-13	2013-17	CSE	2015-16	III	1	Operating Systems	Dr. D.S.R. Murthy	A	77.29	77.7275
								Dr. D.S.R. Murthy	B	73.77	
								M. Srinivas	C	79.94	
								M. Srinivas	D	79.91	
3	R-13	2013-17	CSE	2015-16	III	1	Software Engineering	Md. Azhar	A	76.79	78.7425
								E. Preethi	B	78.8	
								Tirupatirao	C	84.72	
								Tirupatirao	D	74.66	
4	R-13	2013-17	CSE	2015-16	III	1	Computer Networks	Preethi Prasada	A	78.2	76.7625
								Preethi Prasada	B	80.7	
								D. Venkateswarlu	C	72.93	
								D. Venkateswarlu	D	75.22	
5	R-13	2013-17	CSE	2015-16	III	1	Computer Design	Mounika	A	70.65	76.235
								Gouthameeradha	B	72.42	
								G. Lokeshwari	C	85.1	
								G. Lokeshwari	D	76.77	
6	R-13	2013-17	CSE	2015-16	III	1	HPVE	Gopala Krishna	A	74.43	75.3125
								B. Nagamani	B	71.8	
								K. Madhumathi	C	74.92	
								MercyKavitha	D	80.1	
7			CSE						A		#DIV/0!
									B		
									C		
									D		
8			CSE						A		#DIV/0!
									B		
									C		
									D		
9			CSE						A		#DIV/0!
									B		
									C		
									D		
10			CSE						A		#DIV/0!
									B		
									C		
									D		

**PRINCIPAL**

Geethanjali College of Engg. Tech.  
Cheerful (C), Keen (K), Keen (K)

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S.No.	Regulation	Batch	Branch	Academic Year	Year	Sem	Subject	Faculty Name	Section	Sectionwise Assessment	Average Assessment
1	R-13	2014-18	CSE	2015-16	II	1	Data structures	Dr. Nagendra kumar	A	82.02	80.3625
								Dr. Nagendra kumar	B	85.5	
								C. Esther varma	C	80.16	
								C. Esther varma	D	73.77	
2	R-13	2014-18	CSE	2015-16	II	1	MFCS	A. Sriakshmi	A	75.98	71.725
								A. Sriakshmi	B	79.95	
								G.V.S. Acharyulu	C	68.22	
								G.V.S. Acharyulu	D	62.75	
3	R-13	2014-18	CSE	2015-16	II	1	Probability and Statistics	Ramesh	A	72.18	71.93
								Ramesh	B	73.74	
								N. Nagireddy	C	71.82	
								N. Nagireddy	D	69.98	
4	R-13	2014-18	CSE	2015-16	II	1	Digital Logical Design	M. Viaybhaskar Reddy	A	79.16	77.785
								M. Ashwini	B	80.22	
								M. Viaybhaskar Reddy	C	77.23	
								M. Viaybhaskar Reddy	D	74.53	
5	R-13	2014-18	CSE	2015-16	II	1	Electronic Devices and Circuits	Laxmi	A	76.01	70.945
								Laxmi	B	80.21	
								M.V. Sirisha	C	66.38	
								M.V. Sirisha	D	61.18	
6	R-13	2014-18	CSE	2015-16	II	1	Basic Electrical Engineering	Pradeep	A	74.09	77.14333333
								Pradeep	B	78.73	
								Azra	C	78.61	
								Azra	D		
7			CSE						A		#DIV/0!
									B		
									C		
									D		
8			CSE						A		#DIV/0!
									B		
									C		
									D		
9			CSE						A		#DIV/0!
									B		
									C		
									D		
10			CSE						A		#DIV/0!
									B		
									C		
									D		

  
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2012-16 Batch PO 1 PEO assessment

PO	Mapping	Average Course Attainment	Direct	Graduate Survey	Indirect Survey	Average attainment
a	CG	79.19	76.59	89.19	89.19	81.63
	EP(T+L)	82.73				
	EC(T+L)	76.78				
	ITWS/EWS	60.00				
	OR	76.16				
	MFCS	73.04				
	DBMS(T+L)	74.04				
	GOP(T+L)	78.46				
	FLAT	71.21				
	DAA	57.64				
	ASN	95.00				
	CPDS	85.87				
	DLD	50.40				
	ED	72.20				
	PPL	85.47				
	SE	86.13				
	OS(T+L)	86.02				
	DCCN(T+L)	88.18				
	P&S	78.39				
	M-I	79.40				
MM	72.12					
b	MFCS	73.04	79.88	87.54	87.54	82.94
	ASN	95.00				
	CPDS	85.87				
	DLD	50.40				
	DSC++(T+L)	83.54				
	DBMS(T+L)	74.04				
	OOP(T+L)	78.46				
	FLAT	71.21				
	DAA	57.64				
	PPL	85.47				
	SE	86.13				
	OS(T+L)	86.02				
	DCCN(T+L)	88.18				
	EDC(T+L)	71.60				
	BEE(T+L)	75.52				
	MPI(T+L)	86.74				
	VLSI	84.99				
	NS	84.90				
	EDC(T+L)	71.60				
	WT(T+L)	92.77				
STM(T+L)	82.79					
CC	76.71					

  
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WS	82.67				
DWDM(T+L)	81.10				
DP	91.28				
LP(T+L)	79.23				
DSC++(T+L)	83.54				
EDC(T+L)	71.60				
CPDS	85.87				
BEE(T+L)	75.52				
MPI(T+L)	86.74				
VLSI	84.99				
CO	51.32				
DBMS(T+L)	74.04				
OOP(T+L)	78.46				
FLAT	71.21				
DAA	57.64				
PPL	85.47				
SE	86.13	80.48	86.61	86.61	82.93
OS(T+L)	86.02				
DCCN(T+L)	88.18				
OOAD(T+L)	87.87				
WS	82.67				
CD(T+L)	88.26				
WT(T+L)	92.77				
STM(T+L)	82.79				
CC	76.71				
WS	82.67				
LP(T+L)	79.23				
DWDM(T+L)	81.10				
DP	91.28				
Projects	99.00				
IOMP	89.63				
CP LAB	90.93				
EP/EC LAB	85.17				
CPDS	85.87				
ELCS LAB	94.49				
ITWS/EWS	60.00				
EELAB	81.99				
DSC++ LAB	87.49	86.91	87.80	87.80	87.27
OOP LAB	92.03				
DBMS LAB	85.75				
MPI LAB	88.18				
CNOS LAB	87.00				
AECS LAB	100.00				
CDWT LAB	90.00				
LPDM LAB	80.00				
CTST LAB	80.00				
EDC(T+L)	71.60				

  
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e	BEE(T+L)	75.52	78.98	85.83	85.83	81.72
	MPI(T+L)	86.74				
	EP(T+L)	82.73				
	DLD	50.40				
	EC(T+L)	76.78				
	EELAB	81.99				
	MPI LAB	88.18				
	ITWS/EWS	60.00				
	EP/EC LAB	85.17				
	Projects	99.00				
	IOMP	89.63				
f	Projects	99.00	94.32	86.62	86.62	91.24
	IOMP	89.63				
g	Projects	99.00	85.68	86.58	86.58	86.04
	MS	83.60				
	ES	74.44				
h	ENG(T+L)	90.14	90.52	87.08	87.08	89.14
	AELCS LAB	100.00				
	ES	74.44				
	Projects	99.00				
	Seminars	89.02				
i	ES	74.44	86.63	87.68	87.68	87.05
	NS	84.90				
	SE	86.13				
	Projects	99.00				
	MEFA	88.67				
j	Placements & Higher Education	97.81	87.09	88.35	88.35	87.60
	Seminars	89.02				
	Projects	99.00				
	IOMP	89.63				
	Technical Activities	60.00				
k	Placements & Higher Ed	97.81	88.64	87.08	87.08	88.01
	ENG(T+L)	90.14				
	ELCS LAB	94.49				
	AECS LAB	100.00				
	Comprehensive Viva	49.39				
	Projects	99.00				
	IOMP	89.63				

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April - 19

GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ECE

Minutes of Meeting of Program Assessment Committee (PAC) held on 13/04/2019

Venue: Room No: 121

Duration: 2:00 pm - 3.15pm

Members present

Sl. No.	NAME	ROLE
1.	Prof. B. Hari Kumar, HoD	Chairman, PAC (Ba)
2.	Dr. CV Narasimhulu	Member
3.	Prof. K. Somasekhara Rao	Member
4.	Dr. RS. Raju	Member
5.	Dr. S. Suryanarayana	Member
6.	Dr S Ramana Murthy	Member
7.	Dr.P.Vijai Bhasker	Member
8.	Dr B.Leela Prakash	Member
9.	Prof. OVPR Siva Kumar	Member
10.	Dr. Sathya Srinivas	Member
11.	Ms. S. Jyothirmayee	Member
12.	Mr. A. Shankar	Member
13.	Mr. P. Sudhakar	Member
14.	Mr. D. Venkata Rami Reddy	Member
15.	Ms. B. Sreelatha	Member
16.	Ms. G. Sree Lakshmi	Member
17.	Ms.M. Laxmi	Member
18.	Ms.M. Sowjanya	Member
19.	Ms. S. Krishna Priya	Member
20.	Mr. U. Appala Raju	Member
21.	Mr. R. Odaiah	Member
22.	Ms. J.Mrudula	Member

Members not present

-nil-

Agenda:

1. Analysis of first semester results of II B.Tech ECE (Autonomous), III B.Tech ECE (Autonomous) and IV B.Tech ECE(JNTUH) for the Academic Year 2018-19.
2. CO attainment for first semester courses
3. Analysis of PO attainment level of 2014-18 batch of students and comparison with previous three batches.
4. Teaching learning through Project based Learning

Resolutions:

Chairman, PAC started the meeting by welcoming all the members.

The following resolutions were made in this meeting:

1. First semester results of II B.Tech ECE, III B.Tech ECE and IV B.Tech ECE for the Academic year 2018-19 are reviewed.
  - i. Overall pass percentage in II B.Tech I sem ECE is 60.67%, which is improved by 6.22% compared to the previous batch of students. The overall pass percentage of the same batch in their I B.Tech I sem ECE is 51.36% and I B.Tech II Sem is 62.38%.

  
PRINCIPAL

Geethanjali College of Engg. Tech.  
Cheeruvu (V), Keerthi (M), R.R. Road, ... 2019

- ii. Pass percentage of the students in STLD course is 72.63%.
  - iii. Overall pass percentage in III B.Tech I sem ECE is 68.51%, which is increased by 24.45% compared to the previous batch of students. The result of the batch is increased by 8.85% compared to their result in II B.Tech II semester
  - iv. Pass percentage of the students in LDICA course is 79.58%.
  - v. Overall pass percentage in IV B.Tech I sem is 42.55%, which is decreased by 4.86% compared to the previous batch of students. The result of the batch is improved by 4.79% compared to their result in III B.Tech II semester
  - vi. Pass percentage of the students in CMC course is 61.7%.
2. The committee reviewed the attainment of Course outcomes of all the courses offered in First semester of the academic year 2018-19. All the course coordinators participated in the discussion. All the members emphasized to implement changes in the teaching methodology to make our students industry ready.
  3. The committee analyzed the PO attainment levels of recently graduated batch 2014-18. The attainment levels are compared with previous three batches. The following points are observed:
    - a) Attainment level of PO6, 8 and 11 are slightly reduced compared to the 2013-17 batch. As the curriculum courses are weakly correlated to PO6(Society),8(ethics) and 11(Project management and Finance), the final attainment of PO-Direct average is low.
    - b) POs 5,6,7,8,9,10,11 are contributed directly by less than 1/3 rd of the total courses. Steps are to be taken for better attainment of these POs.
  4. The committee discussed about the importance of project based learning.

**Action points:**

1. After reviewing the results of first semester of AY2018-19, it is resolved to conduct the tutorials, remedial classes to improve the performance of the students. It is also decided to implement project based learning in some of the courses to prepare the students suit for industry requirements. This in turn improves design and programming skills of the students in their interested fields.
2. All the course coordinators are instructed to include the attainment of COs through the tutorials also in all the courses from next AY2019-20.
3. It is resolved to conduct more student workshops on hands on using modern tools, NSS activities for benefit of society, awareness programs on to protect environment and aptitude and communication skills development programs. It is also instructed to take the help of professional bodies to conduct these programs.
4. It is resolved to have project based learning in atleast two courses per year of B.Tech program in First semester of AY 2019-20. The following courses are identified:
  - a) Digital Design and ECA courses from second year courses
  - b) MPMC and AWP from third year courses
  - c) Microwave Engineering and Embedded systems from fourth year courses

Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:15pm.



**Prof. B. Hari Kumar**  
Program Coordinator

- Encl: 1. Result analysis of first semester, AY 2018-19  
2. PO attainment levels of 2014-18 batch  
3. CO attainment of first semester courses, AY 2018-19

  
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SEP 18-19

**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF ECE**

**Minutes of Meeting of Program Assessment Committee (PAC) held on 29/09/2018**

**Venue: Dept Seminar Hall (310)**

**Duration: 2:00 pm - 3:00pm**

**Members present**

Sl. No.	NAME	ROLE
1.	Prof. B. Hari Kumar, HoD	Chairman, PAC <i>Ba</i>
2.	Dr. CV Narasimhulu	Member <i>CV</i>
3.	Prof. K. Somasekhara Rao	Member
4.	Dr. RS. Raju	Member <i>RS</i>
5.	Dr. S. Suryanarayana	Member <i>SS</i>
6.	Dr S Ramana Murthy	Member <i>SR</i>
7.	Dr.P.Vijai Bhasker	Member <i>PV</i>
8.	Dr B.Leelel Prakash	Member <i>B</i>
9.	Prof. OVPR Siva Kumar	Member <i>OVPR</i>
10.	Dr. Sathya Srinivas	Member <i>SS</i>
11.	Dr V.Vineel Kumar	Member <i>VV</i>
12.	Ms. S. Jyothirmayee	Member <i>Jy</i>
13.	Mr. A. Shankar	Member
14.	Mr. P. Sudhakar	Member <i>PS</i>
15.	Mr. D. Venkata Rami Reddy	Member <i>D</i>
16.	Ms. B. Sreelatha	Member <i>BS</i>
17.	Ms. G. Sree Lakshmi	Member <i>GS</i>
18.	Ms.M. Laxmi	Member <i>ML</i>
19.	Ms.M. Sowjanya	Member <i>MS</i>
20.	Ms. S. Krishna Priya	Member <i>SKP</i>
21.	Mr. S. Vasu Krishna	Member <i>SVK</i>
22.	Mr. U. Appala Raju	Member <i>UA</i>
23.	Mr. R. Odaiah	Member <i>RO</i>
24.	Ms. J.Mrudula	Member <i>JM</i>

**Members not present**

-nil-

**Agenda:**

1. Analysis of second semester results of II B.Tech ECE (Autonomous), III B.Tech ECE (JNTUH) and IV B.Tech ECE(JNTUH) for the Academic Year 2017-18
2. Laboratories upgradation as per AR18 second year syllabus and AR16 final year syllabus
3. Review on guest lectures, workshops and industrial visits
4. Analysis of PO attainment level of 2013-17 batch of students

**Resolutions:**

Chairman, PAC started the meeting by welcoming all the members.

The following resolutions were made in this meeting:

1. Second semester results of II B.Tech ECE, III B.Tech ECE and IV B.Tech ECE for the Academic year 2017-18 are reviewed.
  - i. Overall pass percentage in II B.Tech II sem ECE is 59.66%, which is improved by 14.5% compared to the previous batch of students. The overall pass percentage of the same batch in their II B.Tech I sem ECE is 54.48%.

*Sive*  
**PRINCIPAL**  
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 Cheeryal (V), Keeravani (M), R.R. Dist. (A.P.) - 501 301

- ii. Pass percentage of the students in Analog Communications course is least with 69.49%.
  - iii. Overall pass percentage in III B.Tech II sem ECE is 37.76%, which is decreased by 7.8% compared to the previous batch of students. The result of the batch is decreased by 6.3% compared to their result in III B.Tech I semester
  - iv. Pass percentage of the students in VLSI Design course is least with 58.92%.
  - v. Overall pass percentage in IV B.Tech II sem is 62.54%, which is decreased by 12.1% compared to the previous batch of students. The result of the batch is improved by 11.83% compared to their result in IV B.Tech I semester
  - vi. Pass percentage of the students in Satellite Communication course is least with 74.1%.
2. Establishment of new laboratories required as per AR16 Fourth year syllabus and AR18 Second year syllabus.
    - i) Embedded Systems Laboratory
    - ii) Digital Design Lab
    - iii) Linear Integrated Circuits Lab
  3. The committee reviewed on guest lectures, workshops and industrial visits conducted for students and the committee opined to have more number of co-curricular activities to enhance the concepts of ECE students in core area.
  4. The committee analyzed the PO attainment levels of previous batches of graduated students.
  5. Quotations have been called for the supply of equipment/ software for the laboratories which are to be established afresh. Procurement of equipment/software is to be completed by the end of November 2018.

#### Action points:

1. To improve the pass percentage in the courses of Analog Communications, VLSI Design and Satellite Communication for subsequent batches, it is proposed to organize more number of industrial visits related to the courses.
2. It is suggested to organize more number of workshops related to the courses.
3. It is suggested to make the students register for the online courses such as MOOC etc.
4. It is suggested to conduct remedial classes for the students whose performance is poor (less than 50% of marks) during the I Mid examination.

Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:00 pm

  
Prof. B. Hari Kumar  
Program Coordinator

  
PRINCIPAL  
Dr. Geethanjali College of Engg. Tech.  
Cheerla (V), Keeravani (M), R.R. Dist. (A.P.) - 501 301

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Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:00 pm

  
Prof. B. Hari Kumar  
Program Coordinator

  
PRINCIPAL  
Geethanjali College of Engg. Tech.  
Cheerla (V), Keeravani (M), R.R. Dist. (A.P.) - 501 301



EEE (17-18)

# Geethanjali College of Engineering & Technology

Department of Electrical and Electronics Engineering

CIRCULAR (2017-2018)(Even Semester)

Department Advisory Committee /Program Assessment Committee was formed; the following staff members constitute the committee

1. Dr D Radhika

2. Dr Aruna Bharathi

3. Dr P Harish

4. N V Bharadwaj

5. G Srikanth

6. K Mahender

*D. Radhika*  
*Aruna Bharathi*  
*P. Harish*  
*N.V. Bharadwaj*  
*G. Srikanth*  
*K. Mahender*

*D. Radhika*  
HOD

EEE Department

*2017-18*

*Principal*  
PRINCIPAL

Geethanjali College of Engg. Tech.  
Cheruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 901

## Minutes of the Meeting

(27/12)

Agenda :- 1) MBA work progress.

2) Course Coordinators & Class teachers

3) Co-PO Attainment

1) CO-PO ~~attempt~~ Mapping & CO-PO attainment to be completed within 2 day to complete SAR document.

2) Criterion 2, 3 & 7 need there mapping -

3) Additional topics & curriculum gaps to be identified for the respective subjects taught.

4) Criterion 1, 4, 5 are completed.

5) Criterion 3 to be taken care by Dr. Aruna Bha  
maam.

6) S. Poornachandra Rao & V. Rakesh will be the MBA coordinators from the department.

7) All the criterion to be finished latest by 10

8) Course Coordinator →

PE Lab & PE → N.V. Bhardwaj

EMI Lab & EMI → G. Srikanth.

~~SS Lab~~ & SS → K. Mahender.

PSI → D. Radhika, 1<sup>st</sup> yr (Civd) → S. Poor

SS Lab → E. Himabindu, GS → M. Preet

9) Regular review meeting to be conducted by coord

10) Class Teacher

II A → Manjul Khare & T. Pooja Rani

II B → N.V. Bhardwaj & V. Sathya

III yr → Dr. Aruna Bhanthi & Soumi Datta.

IV yr → V. Padmaja & Azra Zareeb.

11) ... to ...

2) Solar Power Generation established in the College, faculty should have knowledge about it.

3) Senior faculty in the department should address the students regarding importance of class work.

4) Increments for the next year to be given according to the departmental work done.

5) Junior faculty to sit in senior faculty class.

6) ~~George Basha~~ / ~~George Datta~~ meam will be Incharge of Departmental Library.

7) Internal Quality assessment Committee was formed

8) The CO-PO attainment 2013-17 batch is observed follows - few courses like STLD, CS, PE, MPID, AI were found low, so actions are taken to improve the attainment levels.

9) Even though CO-PO attainment is low in few courses overall attainment of POS are above target levels.

H. R. Reddy 27/11/2017  
HoD-EEE

*[Handwritten signatures and dates]*  
27/11/17  
27/11/17

*[Signature]*  
**PRINCIPAL**  
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Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301



**GEETHANJALI COLLEGE OF ENGINEERING and TECHNOLOGY**

Cheeryal (V), Keesara (M), Medchal (Dist.), Telangana – 501301

**Department of Civil Engineering**

***Vision of the institute:***

Geethanjali visualizes dissemination of knowledge and skills to students, who would eventually contribute to well-being of the people of the nation and global community.

***Mission of the institute:***

- 1) To impart adequate fundamental knowledge in all basic sciences and engineering, technical and Inter-personal skills to students.
- 2) To bring out creativity in students that would promote innovation, research and entrepreneurship.
- 3) To preserve and promote cultural heritage, humanistic and spiritual values promoting peace and harmony in society.

**Vision of the Department:**

The Civil Engineering Department is committed to excellence, quality, and sustained growth while offering our students an outstanding and rigorous education, in an environment that supports intellectual growth while meeting 21<sup>st</sup> century demands.

**Mission of the Department:**

<b>M1</b>	To provide high-quality educational experience for students in the field of Civil Engineering with strong emphasis on professional ethics, social and environmental responsibilities.
<b>M2</b>	To provide infrastructure and facilities to meet the latest technological requirements.
<b>M3</b>	To provide research opportunities for faculty and students.
<b>M4</b>	To have a continuous interaction with Industry with an emphasis on R and D.
<b>M5</b>	To produce engineers capable of critical thinking, devoted to lifelong learning, and highly sought after by employers.

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Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501301

### **Program Outcomes (POs):**

**PO 1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO 2: Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO 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.

**PO 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.

**PO 5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO 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.

**PO 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.

**PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO 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.

**PO 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.

**PO 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.

### **Program Specific Outcomes (PSOs):**

**PSO 1:** Apply knowledge in core areas of Civil Engineering such as Structural, Geotechnical, Water Resources, Transportation and Environmental Engineering to Civil Engineering practice.

**PSO 2:** Utilize Civil Engineering principles that are appropriate to produce detailed drawings, design reports, quantity and cost estimates, specifications, contracts and other documents appropriate for the design, construction, operations and maintenance of Civil Engineering projects.

**PSO 3:** Shall interact and collaborate with stakeholders; execute quality construction works applying Civil Engineering tools namely, Total Station, Global Positioning System (GPS), ArcGIS, AutoCAD, STAAD and other necessary tools.

### **Program Educational Objectives (PEOs)**

Program Educational Objectives (PEOs) are broad statements that describe the career and professional accomplishments that the program is preparing the graduates to achieve within three to five years of graduation. The PEOs for B. Tech Civil Engineering program are:

**PEO 1:** Graduates will be technically adept in mathematical, scientific, and engineering fundamentals to pursue their chosen profession or pursue advanced studies with a commitment to lifelong learning for professional development.

**PEO 2:** Graduates will be able to apply problem-solving skills to various engineering problems that involve management of medium-sized projects to large-scale projects using modern equipment or systems, and work on multidisciplinary projects in multicultural environment demonstrating interpersonal skills.

**PEO 3:** Graduates will exhibit creativity, innovation, and professional ethics with leadership qualities towards societal development.



**PRINCIPAL**  
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Cheeryal (V), Keesara (M), R.R. Dist. (A.P.) - 501 301



**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**  
Cheeryal (V), Keesara (M), Medchal Dist. – 501301

**DEPARTMENT OF CIVIL ENGINEERING**

Dt: 28/01/2021

**CIRCULAR**

Sub:- Twelfth Meeting of Program Assessment Committee Members - Reg.

The Twelfth meeting of PAC members is scheduled on Feb 01, 2021 at 1:00 PM in the department library with the following agenda.

**Agenda:**

1. Review of previous meeting minutes
2. NBA visit status update
3. Review and approval of Course level attainment calculations and necessary actions
4. Review and approval of PO attainment levels for third batch (2016-20) and suggestions for improvements
5. Review of syllabus coverage using online classes
6. Review of students attendance
7. Any other item with the permission of the chair.

All PAC members are requested to attend the meeting.

Dr. R. Prasanna Kumar

Head of the Department

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GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY  
Cheeryal (V), Keesara (M), Medchal Dist. – 501301

DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meeting of Twelfth Program Assessment Committee (PAC) held on  
Feb 01, 2021  
AY: 2020-21

Venue: Department Library

Time: 1:00 - 3:30 PM

Members:

Sl. No	Name	Role	Sign
1	Dr. R. Prasanna Kumar	Professor and HOD	
2	Dr. P. Harsha Praneeth	Associate Professor	
3	S. Hari Kiran	Associate Professor	
4	V. Abdul Raffi	Associate Professor	

Agenda:

1. Review of previous meeting minutes
2. NBA visit status update
3. Review and approval of Course level attainment calculations and necessary actions
4. Review and approval of PO attainment levels for third batch (2016-20) and suggestions for improvements
5. Review of syllabus coverage using online classes
6. Review of students attendance
7. Any other item with the permission of the chair.

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**Minutes:**

Dr. R. Prasanna Kumar welcomed all the members for the 12<sup>th</sup> PAC meeting. The minutes of the meeting are as follows:

- 1) Reviewed the previous PAC meeting minutes and no pending action items were identified.
- 2) HoD updated all the members regarding the NBA Expert Team Visit scheduled for March 19, 20, 21 or March 26, 27 and 28. The updated SAR including AY 2019-20 details has to be sent to NBA by March 01, 2021. In this regard he requested all members to update criteria wise information and consolidate the report for his verification by Feb 12, 2021.
- 3) Mr. S. Hari Kiran presented the overall **CO-PO attainment** calculations for **2016-20 batch**. Here are the findings:
  - A. Practicals: 13 courses (out of 13) have attained 70% or more aggregate of learning outcomes
  - B. Theory: 29 courses (out of 35) have attained 70% or more aggregate of learning outcomes.

Attainment levels for the following courses are found to be lower than the target:

- i. C213 - Strength of Materials – I: Inadequate knowledge in fundamentals of Mathematics and Engineering Mechanics.
- ii. C215 - Fluid Mechanics: Inadequate knowledge in fundamentals of Mathematics and Mechanics.
- iii. C 224 - Strength of Materials – II: Inadequate knowledge in fundamentals of Strength of Materials- I.
- iv. C 225 – Hydraulics and Hydraulic Machinery: Inadequate knowledge in fundamentals of Fluid Mechanics.
- v. C 313 – Engineering Hydrology: Inadequate knowledge in the fundamentals of Fluid Mechanics.
- vi. C 413 – Health Monitoring and Retrofitting of Structures – Inadequate exposure to real-world problems in retrofitting of structures.

The course coordinators along with the faculty identified the courses in which a fairly good number of students' performance is found to be wanting. Necessary corrective measures (which includes remedial classes where practice of assignments/ tutorial questions) have been taken after an interaction with students.

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- 4) Reviewed and approved PO attainment results for the batch 2016-20. All POs have attained for the batch admitted for 2016-20. The summary of attainments are enclosed to the minutes.
- 5) All group heads to instruct their respective Mentee faculty to complete the syllabus as per the planned academic schedule through online mode effectively.
- 6) Group heads to instruct mentee faculty to closely monitor students attendance and regularly counsel irregular students to attend online classes.
- 7) Course-instructors to collect all feedbacks from students using google forms.

**Action Points:**

- 1) Mr. S. Hari Kiran to update SAR and send to NBA office by March 01, 2021.



Dr. R. Prasanna Kumar  
Program Coordinator

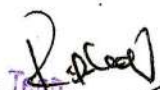
HEAD  
Dept. of Civil Engineering  
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**Attainment of Course Outcomes for the batch 2016 - 20 (for all the courses from 3<sup>rd</sup> semester to 8<sup>th</sup> semester) – Autonomous batch**

Year of Study: 2016-20								
3rd Semester (II Year I Semester)								
Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C211	Mathematics:- III (16MA2102)	2.85	2.4	2.85	1.95	1.25	2.26
2	C212	Building Materials, Construction & Planning (16CE2101)	2.85	2.4	2.4	2.85	2.4	2.58
3	C213	Strength of Materials - I (16CE2102)	1.88	1.42	2.02	2.07	1.42	1.76
4	C214	Surveying (16CE2103)	3	2.1	2.9	2	2.45	2.49
5	C215	Fluid Mechanics (16CE2104)	1.72	2.32	1.87	1.87	2.32	2.02
6	C216	Strength of Materials Lab (16CE21L1)	2.25	2.25	2.25	2.25	2.25	2.25
7	C217	Surveying Lab (16CE21L2)	2.25	2.25	2.25	2.25	2.25	2.25
8	C218	Computational Mathematics Lab (16MA21L1)	2.25	2.25	2.25	2.25	2.25	2.25
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10
4th Semester (II Year II Semester)								
Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C221	Probability and Statistics (16MA2201)	2.32	2.17	2.17	2.62	1.72	2.2
2	C222	Engineering Geology (16CE2201)	2.02	2.02	2.02	2.02	2.47	2.11
3	C223	Concrete Technology (16CE2202)	2.63	2.18	2.18	2.18	2.48	2.33
4	C224	Strength of Materials - II (16CE2203)	2.62	2.02	1.72	1.72	1.27	1.87
5	C225	Hydraulics and Hydraulic Machinery (16CE2204)	1.8	1.65	1.35	1.8	1.35	1.59
6	C226	Engineering Geology Lab (16CE22L1)	2.25	2.25	2.25	2.25	2.15	2.23
7	C227	Concrete Technology Lab (16CE22L2)	2.1	2.1	2.1	2.1	2.1	2.1
8	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CE22L3)	2.1	2.1	2.1	2.1	2.1	2.1
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10
5th Semester (III Year I Semester)								
Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C311	Structural Analysis (16CE3101)	1.8	2.55	2.85	1.65	1.95	2.16
2	C312	Design of Reinforced Concrete Structures (16CE3102)	2.7	2.1	1.65	1.8	2.25	2.1
3	C313	Engineering Hydrology (16CE3103)	2.25	1.8	1.77	1.87	1.87	1.91
4	C314	Transportation Engineering (16CE3104)	2.62	2.02	2.17	2.17	1.72	2.14

  
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5	C315	Geotechnical Engineering (16CE3105)	2.63	1.43	2.63	2.18	2.03	2.18
6	C316	Transportation Engineering Lab (16CE31L1)	2.1	2.1	2.1	2.1	2.1	2.1
7	C317	Geotechnical Engineering Lab (16CE31L2)	2.1	2.1	2.1	2.1	2.1	2.1
8	C318	Advanced English Communication Skills Lab (16EN31L1)	2.25	2.25	2.25	2.25	2.25	2.25
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10

**6th Semester (III Year II Semester)**

Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C321	Design of Steel Structures (16CE3201)	2.33	2.33	1.73	2.18	2.33	2.17
2	C322	Foundation Engineering (16CE3202)	1.95	2.25	2.25	2.25	2.25	2.19
3	C323	Environmental Engineering (16CE3203)	2.62	2.32	2.17	1.87	1.8	2.16
4	C324	Irrigation Engineering (16CE3204)	2.7	2.1	1.95	1.5	2.4	2.13
5	C325	<b>Open Elective - I:</b> Intellectual Property Rights (16MB3221)	2.32	2.02	2.32	2.62	1.72	2.2
		<b>Open Elective - I:</b> Industrial Safety and Hazards (16EE3222)	2.85	2.4	2.6	2.85	2.4	2.62
6	C326	<b>Softcore Elective-I:</b> Geographic Information System (16CE3205)	2.25	2.25	2.25	2.7	2.17	2.32
		<b>Softcore Elective-I:</b> Advanced Structural Design (16CE3206)	2.55	2.55	3	2.55	3	2.73
7	C327	Environmental Engineering Lab (16CE32L1)	2.1	2.1	2.1	2.1	2.1	2.1
8	C328	<b>Softcore Elective-I Lab:</b> Geographic Information System Lab (16CE32L2)	2.1	2.1	2.1	2.1	2.1	2.1
		<b>Softcore Elective-I Lab:</b> Advanced Structural Design Lab (16CE32L3)	2.85	2.85	2.75	2.65	2.85	2.75
9	C329	Human Values and Professional Ethics (16MB32P1)	2.62	1.72	2.07	2.17	2.17	2.15
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10

**7th Semester (IV Year I Semester)**

Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C411	Estimation, Costing & Contracts (16CE4101)	1.72	2.62	2.08	2.08	2.08	2.11
2	C412	<b>Professional Elective-I:</b> Air and Water Transportation (16CE4103)	2.85	1.95	1.5	2.4	1.95	2.13
		<b>Professional Elective-I:</b> Ground Improvement Techniques (16CE4104)	2.36	2.36	2.29	2.7	2.21	2.39

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3	C413	<b>Professional Elective-II:</b> Health Monitoring and Retrofitting of Structures (16CE4107)	1.35	0.9	0.65	1.87	1.72	1.3
4	C414	<b>Open Elective - II:</b> Supply Chain Management (16MB4131)	2.85	1.95	1.95	1.42	2.77	2.19
5	C415	<b>Open Elective - III:</b> Banking and Insurance (16MB4141)	2.1	2.55	2.25	2.4	1.95	2.25
6	C416	<b>Softcore Elective-II:</b> Pavement Analysis and Design (16CE4111)	2.32	2.32	2.32	2.32	2.17	2.29
7	C417	Computer Aided Structural Drafting Laboratory (16CE41L1)	2.1	2.1	2.1	2.1	2.1	2.1
8	C418	<b>Softcore Elective-II Lab:</b> Pavement Analysis and Design Lab (16CE41L3)	2.4	2.4	2.4	2.4	2.4	2.4
9	C419	Industry Oriented Mini-project (16CE4112)	2.25	2.25	2.25	2.25	2.25	2.25
10	C420	Major Project Seminar (16CE4113)	2.25	2.25	2.25	2.25	2.25	2.25
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10
<b>8th Semester (IV Year II Semester)</b>								
Sl.no	Course Index	Name of the Course with Code	CO1	CO2	CO3	CO4	CO5	Avg
1	C421	Construction Technology & Project Management (16CE4201)	2.85	2.4	2.3	2.3	2.75	2.52
2	C422	<b>Professional Elective-III:</b> Railway Engineering (16CE4205)	2.85	2.85	2.85	2.4	2.85	2.76
3	C423	<b>Open Elective - IV:</b> Entrepreneurship (16MB4251)	2.63	2.78	2.63	2.63	2.18	2.57
		<b>Open Elective - IV:</b> Materials Handling (16ME4255)	2.55	2.85	2.9	2.9	2.9	2.82
4	C424	Technical Seminar (16CE4206)	2.25	2.25	2.25	2.25	2.25	2.25
5	C425	Comprehensive Viva Voce (16CE4207)	2.25	2.25	2.25	2.25	2.25	2.25
<b>Target (70%)</b>			2.10	2.10	2.10	2.10	2.10	2.10

### Conclusions:

- 1) Practicals: 13 courses (out of 13) have attained 70% or more aggregate of learning outcomes
- 2) Theory: 29 courses (out of 35) have attained 70% or more aggregate of learning outcomes.

  
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Attainment levels for the following courses are found to be lower than the target:

- 1) C213 - Strength of Materials – I: Inadequate knowledge in fundamentals of Mathematics and Engineering Mechanics.
- 2) C215 - Fluid Mechanics: Inadequate knowledge in fundamentals of Mathematics and Mechanics.
- 3) C 224 - Strength of Materials – II: Inadequate knowledge in fundamentals of Strength of Materials- I.
- 4) C 225 – Hydraulics and Hydraulic Machinery: Inadequate knowledge in fundamentals of Fluid Mechanics.
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**Course-Program outcome matrix for the Year of study: 2016-20 (Autonomous)**

Year of Study: 2016-20 (AR 16)														
Sl.no	Course Index	Name of the Course with Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
1	C101	English-I (16EN1101)	-	-	-	-	-	2	-	2	3	3	-	3
2	C102	Engineering Physics (16PH1101)	3	3	-	-	-	-	-	-	2	-	-	2
3	C103	Mathematics - I (16MA1101)	3	2	2	-	-	2	-	-	-	-	-	3
4	C104	Introduction to Computer Programming (16CS1102)	3	2	-	2	2	-	-	2	2	-	-	2
5	C105	Engineering Drawing (16ME1101)	3	2.4	-	-	2.6	-	-	-	2.4	-	-	2.6
6	C106	Engineering Mechanics - I (16ME1102)	3	3	3	-	-	-	-	-	-	-	-	3
7	C107	Engineering Physics Lab (16PH11L1)	3	3	-	-	-	-	-	-	2	-	-	2
8	C108	Computer Programming Lab (16CS11L2)	3	2	-	2	2	-	-	2	2	-	-	2
9	C109	Engineering Workshop (EWS) / Information Technology Workshop (ITWS) (16WS11L1)	1.8	1.25	1.5	2.4	-	1	1	1	1.25	-	-	3
10	C110	English -II (16EN1201)	-	-	-	-	-	2	-	2	3	3	-	3
11	C111	Physics for Engineers (16PH1203)	3	3	-	-	-	-	-	-	2	-	-	2
12	C112	Mathematics-II (16MA1201)	3	2	2	-	-	2	-	-	-	-	-	3
13	C113	Engineering Chemistry (16CH1201)	2	2	2	-	-	-	2	-	-	-	-	3
14	C114	Environmental Studies (16CH1202)	2	2	2.2	-	2	2	3	-	-	-	-	3
15	C115	Engineering Mechanics -II (16ME1201)	3	3	3	-	-	-	-	-	-	-	-	3

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16	C116	Basic Electrical and Electronics Engineering (16EE1201)	3	3	1	-	-	-	3	1	2	-	2.29	-	3
17	C117	English Lab (16EN12L2)	-	-	-	-	-	-	2	2	2	3	3	-	3
18	C118	Engineering Chemistry Lab (16CH12L1)	2	2	-	-	-	-	2	2	-	-	-	-	2
19	C119	Gender Sensitization (16HS12L1)	-	-	-	-	-	-	2	-	2	-	-	-	2
20	C211	Mathematics – III (16MA2102)	3	2	2	-	-	-	2	-	-	-	-	-	3
21	C212	Building Materials, Construction & Planning (16CE2101)	3	-	2	-	-	-	2	2.2	1.7	-	-	-	3
22	C213	Strength of Materials - I (16CE2102)	2.4	2.8	2	1.2	-	-	2	-	-	-	-	-	1.8
23	C214	Surveying (16CE2103)	2.8	2.2	2.7	2.5	2	2.2	2	-	2	-	-	-	2.5
24	C215	Fluid Mechanics (16CE2104)	2.6	2	-	2.2	-	-	2	-	-	-	-	-	2.2
25	C216	Strength of Materials Lab (16CE21L1)	2.4	-	2	1.8	2	-	2	-	1.6	1.6	1.8	-	1.6
26	C217	Surveying Lab (16CE21L2)	3	2.4	2	2.5	3	2.3	2	2	2	3	2	2	2.5
27	C218	Computational Mathematics Lab (16MA21L1)	3	2	2	-	-	-	2	-	-	-	-	-	3
28	C221	Probability and Statistics (16MA2201)	3	2	2	-	-	-	2	-	-	-	-	-	3
29	C222	Engineering Geology (16CE2201)	2.8	-	-	3	-	-	2.6	2.6	1.6	-	-	-	2.4
30	C223	Concrete Technology (16CE2202)	3	2.5	3	2	-	-	2.6	2	2	-	-	-	2.4
31	C224	Strength of Materials - II (16CE2203)	2.6	2.4	2	2	-	-	-	-	-	-	-	-	1.5
32	C225	Hydraulics and Hydraulic Machinery (16CE2204)	3	2.2	2.4	2	-	-	-	-	1	-	-	-	2.8
33	C226	Engineering Geology Lab (16CE22L1)	2.8	-	-	2.4	2	2	2	2.6	1.6	2	1.2	-	2
34	C227	Concrete Technology Lab (16CE22L2)	2	-	2	2.6	2	2	2	-	2.6	2	2.8	-	2.4

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35	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CEE22L3)	2	-	1.2	1.8	2	-	-	-	1	2	2.2	-	2
36	C311	Structural Analysis (16CEE3101)	2.6	2.4	2.6	2.6	-	-	-	-	-	-	-	-	2
37	C312	Design of Reinforced Concrete Structures (16CEE3102)	2.8	2.2	3	2.8	-	-	-	-	1.8	-	-	-	2.6
38	C313	Engineering Hydrology (16CEE3103)	3	2.4	2.4	2.4	-	2.4	2.6	-	-	-	-	-	2.2
39	C314	Transportation Engineering (16CEE3104)	3	2.3	1.6	2.6	-	2.5	2	2	1.6	-	-	-	2
40	C315	Geotechnical Engineering (16CEE3105)	3	3	2	-	-	2	2	2	1	-	-	-	1.4
41	C316	Transportation Engineering Lab (16CEE31L1)	2	-	-	2	-	2	-	-	1.6	2.6	2.2	-	2
42	C317	Geotechnical Engineering Lab (16CEE31L2)	1.4	1.4	1.2	1.2	1	1.5	2	2	1.8	1.4	1.6	-	1.3
43	C318	Advanced English Communication Skills Lab (16EN31L1)	-	-	-	-	-	2	-	-	2	2.8	3	-	3
44	C321	Design of Steel Structures (16CEE3201)	2.8	2.6	3	1.8	-	-	-	-	2	-	-	-	2.2
45	C322	Foundation Engineering (16CEE3202)	2.6	2.2	2.4	2.6	-	2.4	2.5	2.5	2.5	-	-	-	2.4
46	C323	Environmental Engineering (16CEE3203)	2.6	2.4	2.7	1.8	-	2.8	3	2.2	2.2	-	-	-	2.4
47	C324	Irrigation Engineering (16CEE3204)	2.8	2.4	2.8	2.4	-	2.6	2	2	2	-	-	-	2.4
48	C325	Open Elective - I: Intellectual Property Rights (16MB3221) Open Elective - I: Industrial Safety and Hazards (16EEE3222)	2	-	-	-	-	2.6	-	2.8	2.8	-	3	-	2
49	C326	Softcore Elective-I: Geographic Information System (16CEE3205)	1.8	1.3	2	1.8	2.4	1.7	3	2	2	-	-	-	2

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		<b>Softcore Elective-I: Advanced Structural Design (16CE3206)</b>	3	3	3	3	-	2	-	2.2	-	-	-	3	
50	C327	Environmental Engineering Lab (16CE32L1)	2	-	-	2.6	2.6	2.4	3	2.6	2.4	2	-	2.6	
51	C328	<b>Softcore Elective-I Lab: Geographic Information System Lab(16CE32L2)</b>	1.7	2.2	2.2	2.3	2.6	1.7	3	2	2	2	1.5	-	
		<b>Softcore Elective-I Lab: Advanced Structural Design Lab (16CE32L3)</b>	2	3	3	-	3	2	-	2	2	2	-	1.8	3
52	C329	Human Values and Professional Ethics (16MB32P1)	-	-	-	-	-	2.6	3	3	3	3	3	3	
53	C411	Estimation, Costing & Contracts (16CE4101)	2.8	1.2	-	1.7	-	2.5	-	2.5	-	2.5	-	2.5	2
54	C412	<b>Professional Elective-I: Air and Water Transportation (16CE4103)</b>	3	2	2.6	2.2	-	3	2	2	2	2	2	-	2.8
		<b>Professional Elective-I: Ground Improvement Techniques (16CE4104)</b>	2.4	-	2.4	2.4	-	2	2	2	2	-	-	-	2.4
55	C413	<b>Professional Elective-II: Health Monitoring and Retrofitting of Structures (16CE4107)</b>	2.6	2	1.7	2.7	3	2.2	-	2	-	-	-	2	
56	C414	<b>Open Elective - II: Supply Chain Management (16MB4131)</b>	2	-	-	-	-	2.5	2.5	3	-	2.5	2.3	2	
57	C415	<b>Open Elective - III: Banking and Insurance (16MB4141)</b>	2	-	-	-	-	2.5	2.5	3	-	2.6	2	2.4	
58	C416	<b>Softcore Elective-II: Pavement Analysis and Design (16CE4111)</b>	2.8	2.4	2	2	-	-	2	-	-	-	-	-	
59	C417	Computer Aided Structural Drafting Laboratory (16CE41L1)	1	-	1.8	-	2	-	-	-	2	-	-	3	

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60	C418	Software Elective-II Lab: Pavement Analysis and Design Lab (16CE41L3)	3	2.2	1.7	2	2	-	2	2	-	-	-	-	-	-	-	-	-	-
61	C419	Industry Oriented Mini-project (16CE41I2)	2.4	2.5	3	2	2.5	2.33	2	2.5	2.6	3	2.33	3	-	-	-	-	-	-
62	C420	Major Project Seminar (16CE41I3)	2.7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
63	C421	Construction Technology & Project Management (16CE4201)	2.2	-	-	-	-	2.4	2.4	2.7	-	2.2	3	2.6	-	-	-	-	-	-
64	C422	Professional Elective-III: Railway Engineering (16CE4205)	2.4	2.6	3	2.7	-	2	2.4	2.5	-	-	2.3	2.5	-	-	-	-	-	-
65	C423	Open Elective - IV: Entrepreneurship (16MB4251)	-	-	-	-	-	2.4	2.6	2.6	-	-	2.6	3	-	-	-	-	-	-
		Open Elective - IV: Materials Handling (16ME4255)	2.4	-	-	-	-	2.6	2.7	-	-	-	-	-	-	-	-	-	-	2.5
66	C424	Technical Seminar (16CE4206)	2.2	2.3	-	-	-	-	-	-	2.2	2.6	2	3	-	-	-	-	-	-
67	C425	Comprehensive Viva Voce (16CE4207)	2.8	2.4	-	-	-	-	-	-	-	2.4	-	3	-	-	-	-	-	-
68	C426	Major Project (16CE4208)	2.17	2.24	2.18	2.32	2.00	2.21	2.20	2.05	2.60	2.33	2.17	2.48	-	-	-	-	-	-
		Average	2.55	2.32	2.25	2.24	2.28	2.23	2.33	2.09	2.24	2.41	2.38	2.46	-	-	-	-	-	-

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low)      2: Moderate (Medium)

It there is no correlation, put "-"

3: Substantial (High)

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**Course-Program Specific outcome matrix of all courses for the Year of study: 2016-20 (Autonomous)**

Year of Study: 2016-20 (AR 16)					
Sl.no	Course Index	Name of the Course with Code	PSO1	PSO2	PSO3
1	C101	English-I (16EN1101)	-	-	-
2	C102	Engineering Physics (16PH1101)	-	-	-
3	C103	Mathematics – I (16MA1101)	-	2	-
4	C104	Introduction to Computer Programming (16CS1102)	-	-	-
5	C105	Engineering Drawing (16ME1101)	2	-	-
6	C106	Engineering Mechanics – I (16ME1102)	3	2	1
7	C107	Engineering Physics Lab (16PH11L1)	1	-	-
8	C108	Computer Programming Lab (16CS11L2)	-	-	-
9	C109	Engineering Workshop (EWS) / Information Technology Workshop (ITWS) (16WS11L1)	-	-	-
10	C110	English –II (16EN1201)	-	-	-
11	C111	Physics for Engineers (16PH1203)	1	-	-
12	C112	Mathematics-II (16MA1201)	-	2	-
13	C113	Engineering Chemistry (16CH1201)	-	-	-
14	C114	Environmental Studies (16CH1202)	-	-	-
15	C115	Engineering Mechanics –II (16ME1201)	2	1	-
16	C116	Basic Electrical and Electronics Engineering (16EE1201)	-	-	-
17	C117	English Lab (16EN12L2)	-	-	-
18	C118	Engineering Chemistry Lab (16CH12L1)	-	-	-
19	C119	Gender Sensitization (16HS12L1)	-	-	-
20	C211	Mathematics – III (16MA2102)	-	2	-
21	C212	Building Materials, Construction & Planning (16CE2101)	3	2.2	-
22	C213	Strength of Materials - I (16CE2102)	2	1.5	-
23	C214	Surveying (16CE2103)	3	3	2.5
24	C215	Fluid Mechanics (16CE2104)	2.6	1.8	-
25	C216	Strength of Materials Lab (16CE21L1)	2	-	-

26	C217	Surveying Lab (16CE21L2)	2.5	2.5	3
27	C218	Computational Mathematics Lab (16MA21L1)	-	2	-
28	C221	Probability and Statistics (16MA2201)	-	2	-
29	C222	Engineering Geology (16CE2201)	1.6	2	2
30	C223	Concrete Technology (16CE2202)	3	2.6	-
31	C224	Strength of Materials - II (16CE2203)	3	1.4	-
32	C225	Hydraulics and Hydraulic Machinery (16CE2204)	2.8	2	-
33	C226	Engineering Geology Lab (16CE22L1)	1.4	2	2
34	C227	Concrete Technology Lab (16CE22L2)	2	-	-
35	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CE22L3)	3	1.7	-
36	C311	Structural Analysis (16CE3101)	3	-	-
37	C312	Design of Reinforced Concrete Structures (16CE3102)	3	2.8	-
38	C313	Engineering Hydrology (16CE3103)	2.8	2.3	-
39	C314	Transportation Engineering (16CE3104)	3	2.3	2
40	C315	Geotechnical Engineering (16CE3105)	1.8	2.2	-
41	C316	Transportation Engineering Lab (16CE31L1)	2	-	-
42	C317	Geotechnical Engineering Lab (16CE31L2)	1.2	1.3	2
43	C318	Advanced English Communication Skills Lab (16EN31L1)	-	3	-
44	C321	Design of Steel Structures (16CE3201)	2.6	2.6	-
45	C322	Foundation Engineering (16CE3202)	2.8	2.2	2.3
46	C323	Environmental Engineering (16CE3203)	2.8	2	-
47	C324	Irrigation Engineering (16CE3204)	2.8	2.8	-
48	C325	<b>Open Elective - I: Intellectual Property Rights (16MB3221)</b>	-	3	2
		<b>Open Elective - I: Industrial Safety and Hazards (16EE3222)</b>	2.4	2.4	-
49	C326	<b>Softcore Elective-I: Geographic Information System (16CE3205)</b>	2	1.6	2

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		<b>Softcore Elective-I:</b> Advanced Structural Design (16CE3206)	3	3	3
50	C327	Environmental Engineering Lab (16CE32L1)	2	-	-
51	C328	<b>Softcore Elective-I Lab:</b> Geographic Information System Lab(16CE32L2)	2.3	2	3
		<b>Softcore Elective-I Lab:</b> Advanced Structural Design Lab (16CE32L3)	2.8	3	3
52	C329	Human Values and Professional Ethics (16MB32P1)	-	3	-
53	C411	Estimation, Costing & Contracts (16CE4101)	2.8	2.8	-
54	C412	<b>Professional Elective-I:</b> Air and Water Transportation (16CE4103)	2	2.4	2.2
		<b>Professional Elective-I:</b> Ground Improvement Techniques (16CE4104)	2	2.2	-
55	C413	<b>Professional Elective-II:</b> Health Monitoring and Retrofitting of Structures (16CE4107)	2.6	2	-
56	C414	<b>Open Elective - II:</b> Supply Chain Management (16MB4131)	2.3	3	2
57	C415	<b>Open Elective - III:</b> Banking and Insurance (16MB4141)	2	2	-
58	C416	<b>Softcore Elective-II:</b> Pavement Analysis and Design (16CE4111)	2.8	2	2.7
59	C417	Computer Aided Structural Drafting Laboratory (16CE41L1)	2.6	3	3
60	C418	<b>Softcore Elective-II Lab:</b> Pavement Analysis and Design Lab (16CE41L3)	2.2	2.75	2.5
61	C419	Industry Oriented Mini-project (16CE4112)	2.5	2.4	2
62	C420	Major Project Seminar (16CE4113)	2.8	2.4	2
63	C421	Construction Technology & Project Management (16CE4201)	2.6	3	2
64	C422	<b>Professional Elective-III:</b> Railway Engineering (16CE4205)	2.6	2.3	-
65	C423	<b>Open Elective - IV:</b> Entrepreneurship (16MB4251)	2.7	-	-
		<b>Open Elective - IV:</b> Materials Handling (16ME4255)	2.5	2.5	-
66	C424	Technical Seminar (16CE4206)	1.8	-	-

  
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67	C425	Comprehensive Viva Voce (16CE4207)	3	2	-
68	C426	Major Project (16CE4208)	2.43	2.16	2.12
Average			2.40	2.28	2.29

**Note:**

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low)    2: Moderate (Medium)    3: Substantial (High)  
 If there is no correlation, put "-"

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PO attainment level values for the year of study 2016-20 (Autonomous)

Year of Study: 2016-20 (AR 16)

Sl.no	Course Index	Name of the Course with Code	Year of Study: 2016-20 (AR 16)												
			PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	
1	C101	English-I (16EN1101)	-	-	-	-	-	1.57	-	1.58	2.36	2.43	-	-	2.43
2	C102	Engineering Physics (16PH1101)	2.75	2.75	-	-	-	-	-	-	1.83	-	-	-	1.83
3	C103	Mathematics - I (16MA1101)	2.27	1.51	1.51	-	-	1.51	-	-	-	-	-	-	2.27
4	C104	Introduction to Computer Programming (16CS1102)	2.68	1.79	-	1.79	1.79	-	-	1.79	1.79	-	-	-	1.79
5	C105	Engineering Drawing (16ME1101)	2.47	1.98	-	-	2.14	-	-	-	1.98	-	-	-	2.14
6	C106	Engineering Mechanics - I (16ME1102)	2.50	2.50	2.50	-	-	-	-	-	-	-	-	-	2.50
7	C107	Engineering Physics Lab (16PH11L1)	2.55	2.55	-	-	-	-	-	-	1.70	-	-	-	1.70
8	C108	Computer Programming Lab (16CS11L2)	2.68	1.79	-	1.79	1.79	-	-	1.79	1.79	-	-	-	1.79
9	C109	Engineering Workshop (EWS) / Information Technology Workshop (ITWS) (16WS11L1)	1.80	1.25	1.50	2.40	-	1.00	1.00	1.00	1.25	-	-	-	3.00
10	C110	English -II (16EN1201)	-	-	-	-	-	1.70	-	1.70	2.55	2.55	-	-	2.55
11	C111	Physics for Engineers (16PH1203)	2.24	2.24	-	-	-	-	-	-	1.49	-	-	-	1.49
12	C112	Mathematics-II (16MA1201)	2.65	1.77	1.77	-	-	1.77	-	-	-	-	-	-	2.65
13	C113	Engineering Chemistry (16CH1201)	1.13	1.13	1.13	-	-	-	-	1.13	-	-	-	-	1.70
14	C114	Environmental Studies (16CH1202)	1.83	1.65	1.97	-	1.65	1.83	2.69	-	-	-	-	-	2.69
15	C115	Engineering Mechanics -II (16ME1201)	2.22	2.22	2.22	-	-	-	-	-	-	-	-	-	2.22

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16	C116	Basic Electrical and Electronics Engineering (16EE1201)	2.52	2.52	0.84	-	-	2.52	0.84	1.68	-	1.88	-	2.52
17	C117	English Lab (16EN12L2)	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	-	3.00
18	C118	Engineering Chemistry Lab (16CH12L1)	2.00	2.00	-	-	2.00	2.00	-	-	-	-	-	2.00
19	C119	Gender Sensitization (16HS12L1)	-	-	-	-	2.00	-	2.00	-	-	-	-	2.00
20	C211	Mathematics - III (16MA2102)	2.26	1.51	1.51	-	-	1.51	-	-	-	-	-	2.26
21	C212	Building Materials, Construction & Planning (16CE2101)	2.58	-	1.72	-	-	1.72	1.88	1.34	-	-	-	2.58
22	C213	Strength of Materials - I (16CE2102)	1.41	1.64	1.18	0.75	-	-	-	-	-	-	-	1.04
23	C214	Surveying (16CE2103)	2.29	1.78	2.25	1.99	1.63	1.82	-	1.58	-	-	-	1.95
24	C215	Fluid Mechanics (16CE2104)	1.76	1.35	-	1.48	-	-	-	-	-	-	-	1.48
25	C216	Strength of Materials Lab (16CE21L1)	1.80	-	1.50	1.35	1.50	-	-	1.20	1.20	1.35	-	1.20
26	C217	Surveying Lab (16CE21L2)	2.25	1.80	1.50	1.88	2.25	1.75	1.50	1.50	2.25	1.50	1.50	1.88
27	C218	Computational Mathematics Lab (16MA21L1)	2.25	1.50	1.50	-	-	1.50	-	-	-	-	-	2.25
28	C221	Probability and Statistics (16MA2201)	2.21	1.47	1.47	-	-	1.47	-	-	-	-	-	2.21
29	C222	Engineering Geology (16CE2201)	1.95	-	-	2.25	-	1.85	1.85	1.14	-	-	-	1.71
30	C223	Concrete Technology (16CE2202)	2.33	1.96	2.48	1.65	-	2.01	1.62	1.52	-	-	-	1.86
31	C224	Strength of Materials - II (16CE2203)	1.59	1.47	1.35	1.12	-	-	-	-	-	-	-	0.91
32	C225	Hydraulics and Hydraulic Machinery (16CE2204)	1.59	1.17	1.27	1.06	-	-	-	0.55	-	-	-	1.48
33	C226	Engineering Geology Lab (16CE22L1)	2.09	-	-	1.78	1.47	1.48	1.93	1.23	1.49	0.89	-	1.49
34	C227	Concrete Technology Lab (16CE22L2)	1.40	-	1.40	1.82	1.40	1.40	-	1.82	1.40	1.96	-	1.68

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35	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CEE22L3)	1.40	-	0.84	1.26	1.40	-	-	0.70	1.40	1.54	-	1.40
36	C311	Structural Analysis (16CEE3101)	1.93	1.74	1.85	1.87	-	-	-	-	-	-	-	1.57
37	C312	Design of Reinforced Concrete Structures (16CEE3102)	1.92	1.54	2.10	1.92	-	-	-	1.22	-	-	-	1.74
38	C313	Engineering Hydrology (16CEE3103)	1.92	1.52	1.52	1.52	-	1.52	1.67	-	-	-	-	1.40
39	C314	Transportation Engineering (16CEE3104)	2.15	1.64	1.18	2.03	-	2.04	1.45	1.17	-	-	-	1.43
40	C315	Geotechnical Engineering (16CEE3105)	2.18	2.18	1.62	-	-	1.62	1.75	0.68	-	-	-	1.01
41	C316	Transportation Engineering Lab (16CEE31L1)	1.40	-	-	1.40	-	1.40	-	1.12	1.82	1.54	-	1.40
42	C317	Geotechnical Engineering Lab (16CEE31L2)	0.98	0.98	0.88	0.88	0.70	1.05	1.40	1.26	0.98	1.12	-	0.93
43	C318	Advanced English Communication Skills Lab (16EN31L1)	-	-	-	-	-	1.50	-	1.50	2.06	2.25	-	2.25
44	C321	Design of Steel Structures (16CEE3201)	2.02	1.87	2.18	1.30	-	-	-	1.45	-	-	-	1.57
45	C322	Foundation Engineering (16CEE3202)	1.91	1.61	1.76	1.93	-	1.76	1.78	1.78	-	-	-	1.74
46	C323	Environmental Engineering (16CEE3203)	1.84	1.72	1.86	1.27	-	1.99	2.16	1.62	-	-	-	1.72
47	C324	Irrigation Engineering (16CEE3204)	1.95	1.66	1.95	1.66	-	1.87	1.42	1.42	-	-	-	1.69
48	C325	Open Elective - I: Intellectual Property Rights (16MB3221) Open Elective - I: Industrial Safety and Hazards (16EE3222)	1.47 2.13	- 2.08	- 1.89	- -	- -	1.96 2.27	- 2.27	2.07 2.08	- -	2.21 -	- -	1.47 1.72
49	C326	Softcore Elective-I: Geographic Information System (16CEE3205)	1.40	1.09	1.56	1.43	1.88	1.38	2.18	1.63	-	-	-	1.56

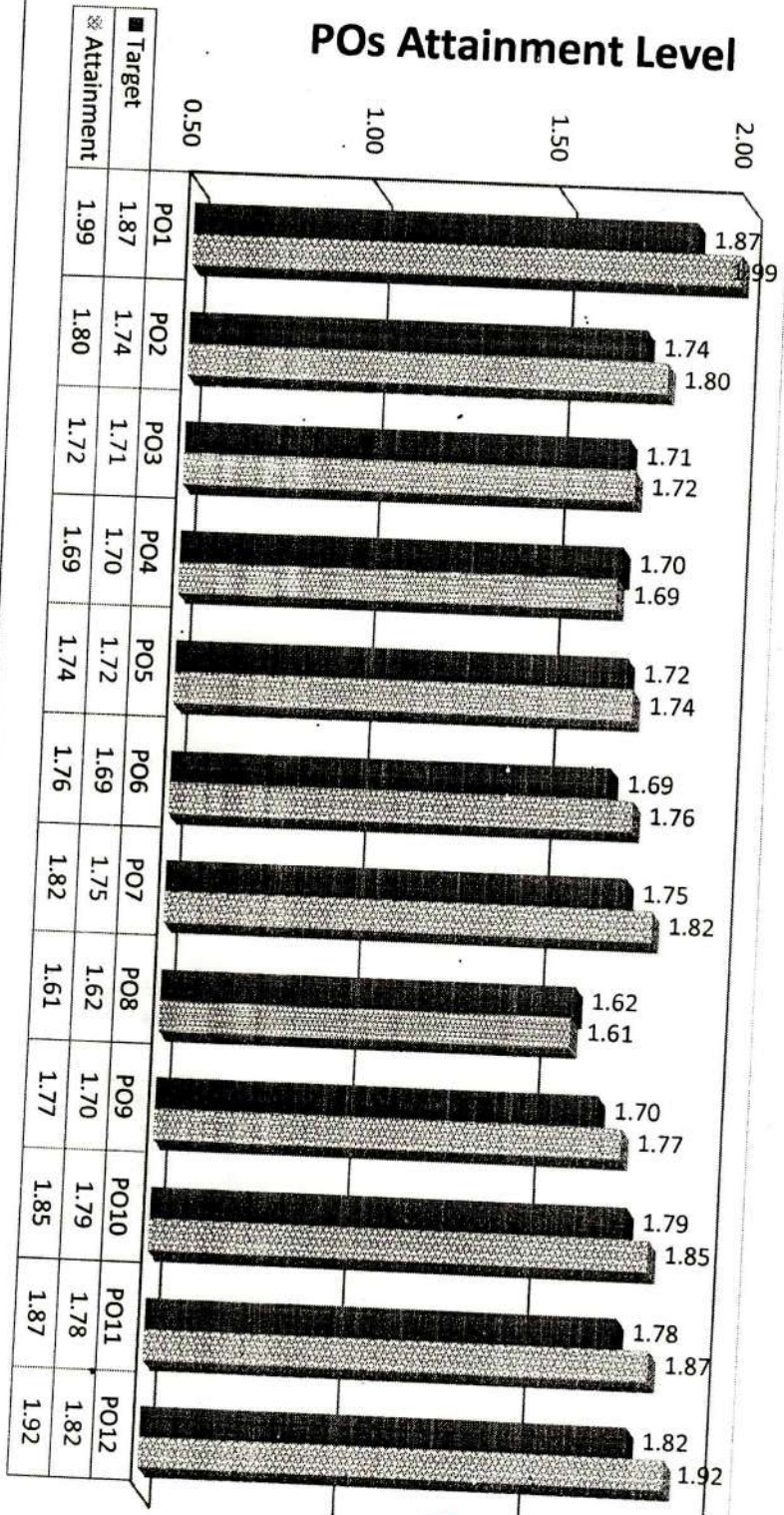
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		<b>Softcore Elective-I: Advanced Structural Design (16CE3206)</b>	2.73	2.73	2.73	2.73	-	1.82	-	1.99	-	-	-	2.73
50	C327	Environmental Engineering Lab (16CE32L1)	1.40	-	-	1.82	1.82	1.68	2.10	1.82	1.68	1.40	-	1.82
51	C328	<b>Softcore Elective-I Lab: Geographic Information System Lab(16CE32L2)</b>	1.23	1.54	1.54	1.63	1.82	1.17	2.10	1.40	1.40	1.05	-	1.40
		<b>Softcore Elective-I Lab: Advanced Structural Design Lab (16CE32L3)</b>	1.86	2.79	2.79	-	2.79	1.86	-	1.85	1.86	-	1.67	2.79
52	C329	Human Values and Professional Ethics (16MB32P1)	-	-	-	-	-	1.90	2.16	2.16	1.44	2.18	2.16	2.16
53	C411	Estimation, Costing & Contracts (16CE4101)	2.00	0.91	-	1.26	-	1.82	-	1.82	-	-	1.73	1.37
54	C412	<b>Professional Elective-I: Air and Water Transportation (16CE4103)</b>	2.13	1.42	1.84	1.55	-	1.95	1.30	1.30	1.30	1.30	-	1.94
		<b>Professional Elective-I: Ground Improvement Techniques (16CE4104)</b>	1.93	-	1.93	1.92	-	1.59	1.65	1.59	-	-	-	1.92
55	C413	<b>Professional Elective-II: Health Monitoring and Retrofitting of Structures (16CE4107)</b>	1.55	1.19	1.05	1.66	1.86	1.31	-	1.21	-	-	-	1.20
56	C414	<b>Open Elective - II: Supply Chain Management (16MB4131)</b>	1.60	-	-	-	-	2.34	1.93	1.43	-	1.93	1.53	1.37
57	C415	<b>Open Elective - III: Banking and Insurance (16MB4141)</b>	1.55	-	-	-	-	1.68	1.98	2.40	-	1.96	1.53	1.81
58	C416	<b>Softcore Elective-II: Pavement Analysis and Design (16CE4111)</b>	2.14	1.83	1.52	1.55	-	-	1.53	-	-	-	-	-
59	C417	Computer Aided Structural Drafting Laboratory (16CE41L1)	0.70	-	1.26	-	1.40	-	-	-	1.40	-	-	2.10


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## POs Attainment Level



POs Attainment levels against target levels for the year of study 2016 – 20 (Autonomous)

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27	C218	Computational Mathematics Lab (16MA21L1)	-	1.50	-
28	C221	Probability and Statistics (16MA2201)	-	1.47	-
29	C222	Engineering Geology (16CE2201)	1.14	1.45	1.45
30	C223	Concrete Technology (16CE2202)	2.33	1.99	-
31	C224	Strength of Materials - II (16CE2203)	1.88	0.88	-
32	C225	Hydraulics and Hydraulic Machinery (16CE2204)	1.47	1.06	-
33	C226	Engineering Geology Lab (16CE22L1)	1.04	1.49	1.47
34	C227	Concrete Technology Lab (16CE22L2)	1.40	-	-
35	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CE22L3)	2.10	1.23	-
36	C311	Structural Analysis (16CE3101)	2.16	-	-
37	C312	Design of Reinforced Concrete Structures (16CE3102)	2.10	1.92	-
38	C313	Engineering Hydrology (16CE3103)	1.79	1.43	-
39	C314	Transportation Engineering (16CE3104)	2.15	1.74	1.55
40	C315	Geotechnical Engineering (16CE3105)	1.35	1.74	-
41	C316	Transportation Engineering Lab (16CE31L1)	1.40	-	-
42	C317	Geotechnical Engineering Lab (16CE31L2)	0.84	0.93	1.40
43	C318	Advanced English Communication Skills Lab (16EN31L1)	-	2.25	-
44	C321	Design of Steel Structures (16CE3201)	1.87	1.87	-
45	C322	Foundation Engineering (16CE3202)	2.04	1.59	1.68
46	C323	Environmental Engineering (16CE3203)	1.99	1.36	-
47	C324	Irrigation Engineering (16CE3204)	1.95	1.95	-
48	C325	Open Elective - I: Intellectual Property Rights (16MB3221)	-	2.21	1.47
		Open Elective - I: Industrial Safety and Hazards (16EE3222)	2.08	2.07	-
49	C326	Software Elective-I: Geographic Information System (16CE3205)	1.58	1.28	1.58
		Software Elective-I: Advanced Structural Design (16CE3206)	2.73	2.73	2.73

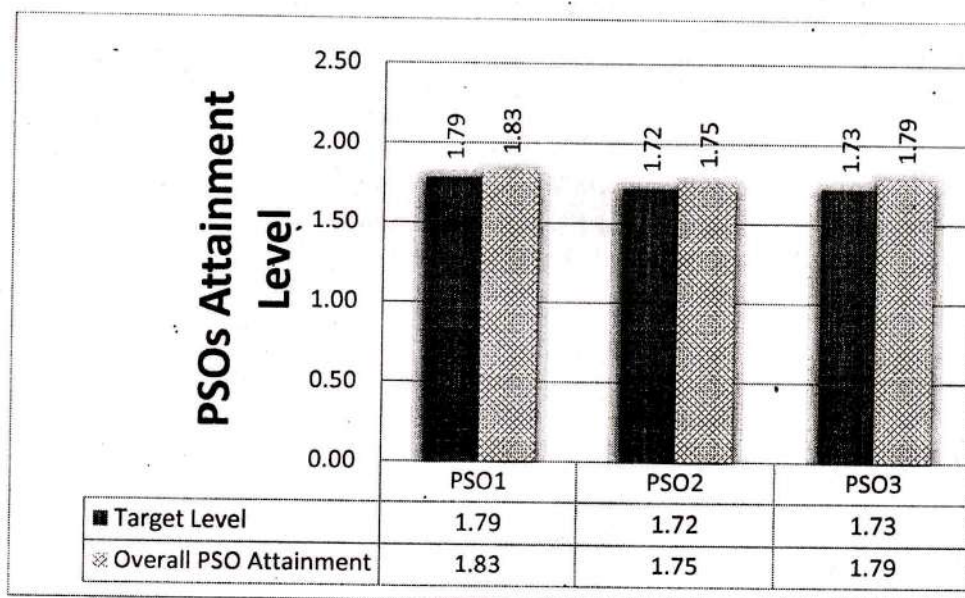
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50	C327	Environmental Engineering Lab (16CE32L1)	1.40	-	-
51	C328	Software Elective-I Lab: Geographic Information System Lab (16CE32L2)	1.63	1.40	2.10
		Software Elective-I Lab: Advanced Structural Design Lab (16CE32L3)	2.60	2.79	2.79
52	C329	Human Values and Professional Ethics (16MB32P1)	-	2.18	-
53	C411	Estimation, Costing & Contracts (16CE4101)	2.00	2.00	-
54	C412	Professional Elective-I: Ground Improvement Techniques (16CE4104)	1.59	1.75	-
		Professional Elective-I: Air and Water Transportation (16CE4103)	1.41	1.77	1.61
55	C413	Professional Elective-II: Health Monitoring and Retrofitting of Structures (16CE4107)	1.55	1.22	-
56	C414	Open Elective - II: Supply Chain Management (16MB4131)	1.40	2.78	1.68
57	C415	Open Elective - III: Banking and Insurance (16MB4141)	1.55	1.50	-
58	C416	Software Elective-II: Pavement Analysis and Design (16CE4111)	2.14	1.55	2.02
59	C417	Computer Aided Structural Drafting Laboratory (16CE4111)	1.82	2.10	2.10
60	C418	Software Elective-II Lab: Pavement Analysis and Design Lab (16CE4113)	1.80	2.20	2.00
61	C419	Industry Oriented Mini-project (16CE4112)	1.88	1.80	1.50
62	C420	Major Project Seminar (16CE4113)	2.06	1.80	1.50
63	C421	Construction Technology & Project Management (16CE4201)	2.17	2.52	1.63
64	C422	Professional Elective-III: Railway Engineering (16CE4205)	2.38	2.22	-
65	C423	Open Elective - IV: Entrepreneurship (16MB4251)	2.38	-	-
		Open Elective - IV: Materials Handling (16MB4255)	2.30	2.30	-
66	C424	Technical Seminar (16CE4206)	1.35	-	-
67	C425	Comprehensive Viva Voce (16CE4207)	2.25	1.50	-



68	C426	Major Project (16CE4208)	1.91	1.69	1.75
<b>Direct PO attainment</b>			1.80	1.74	1.77
<b>Indirect PO attainment</b>			1.90	1.80	1.82
<b>Overall PO attainment</b>			<b>1.83</b>	<b>1.75</b>	<b>1.79</b>
<b>Target (70%)</b>			<b>1.79</b>	<b>1.72</b>	<b>1.73</b>



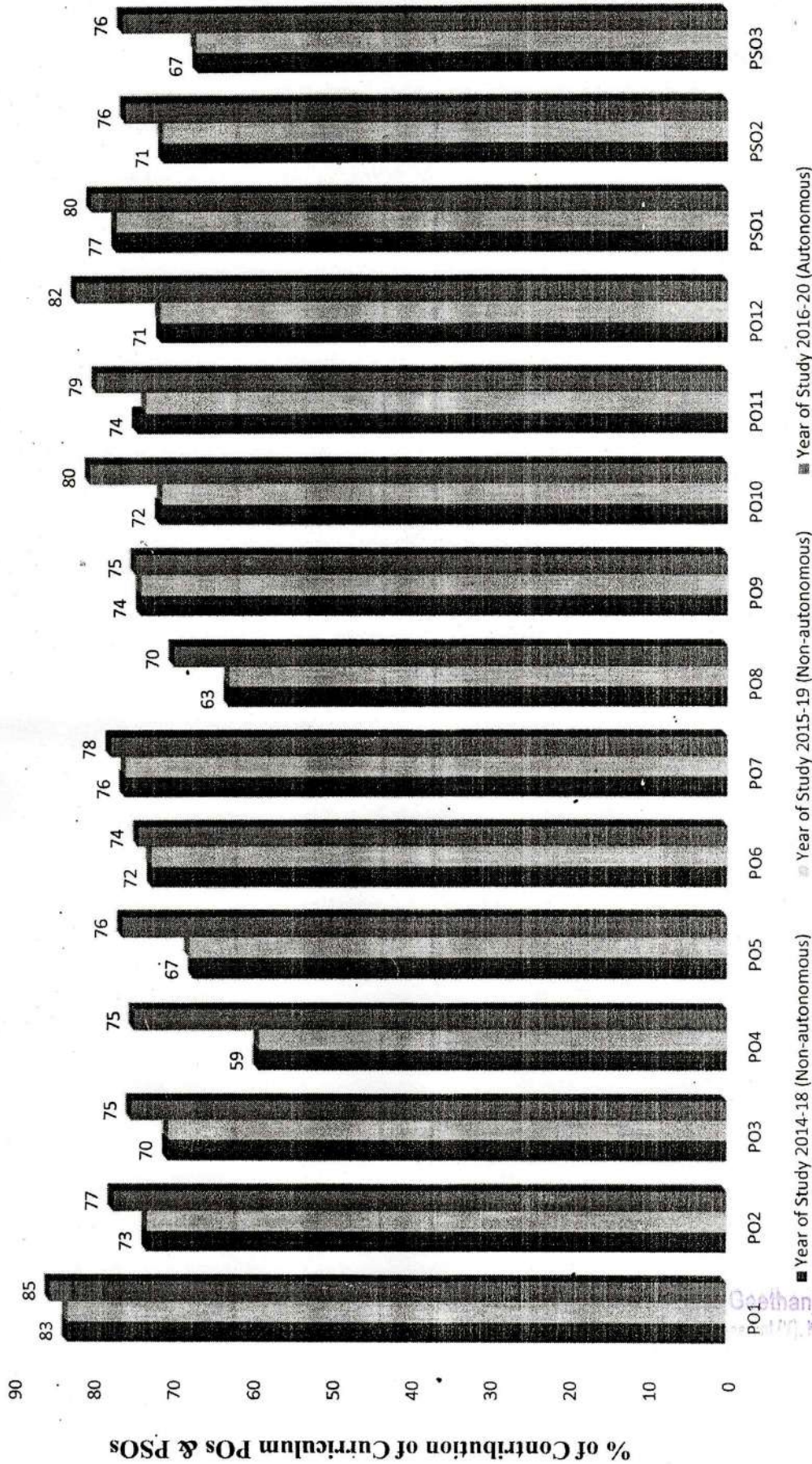
PSOs Attainment levels against target levels for the year of study 2016 – 20

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*S. P. Reddy*  
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Percentage Contribution of Curriculum to POs, PSOs for 2014-18, 2015-19 and 2016-20 Batches



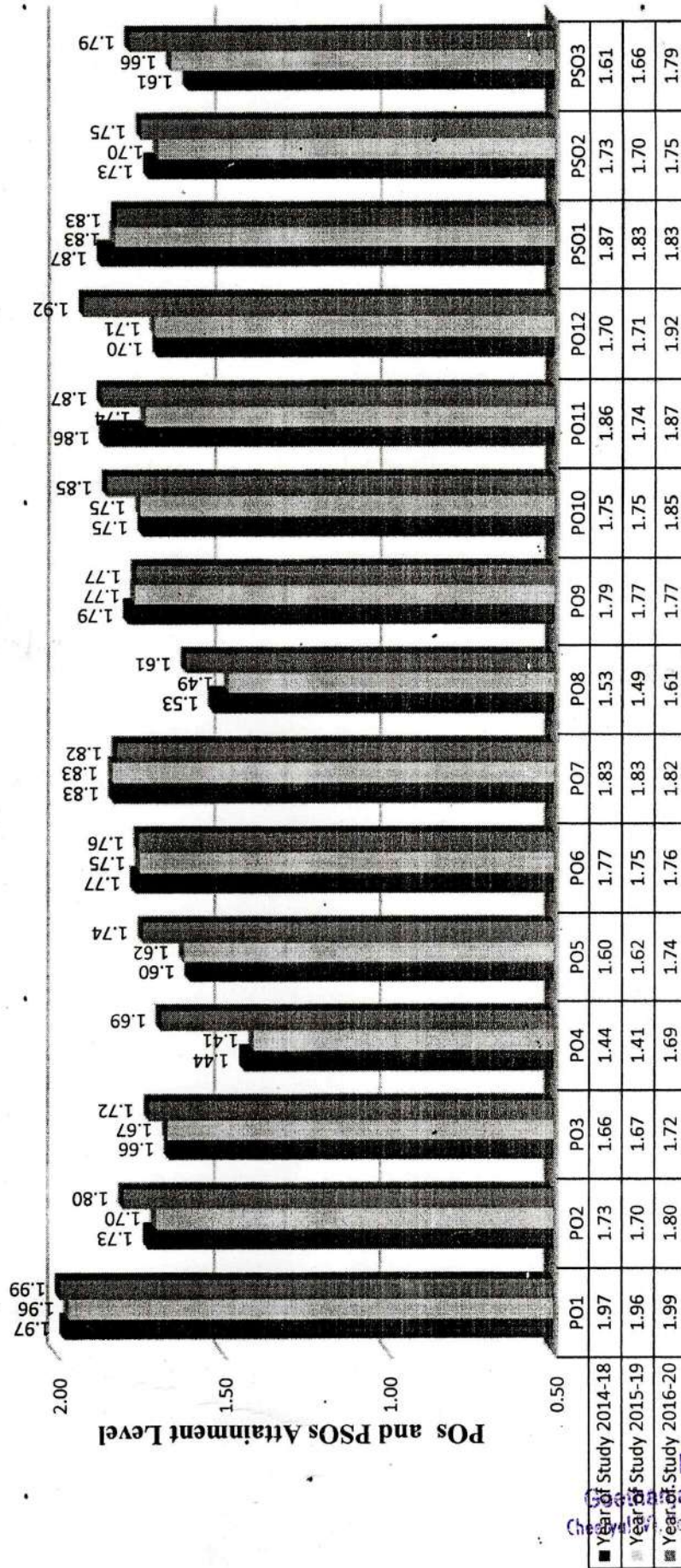
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Comparison of average overall attainment of POs and PSOs for the batches 2016-20, 2015-19 and 2014-18

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## Program level Course-PO, PSO matrix of all courses INCLUDING First Year Courses

Course - Program outcome matrix of all courses for the Year of study: 2016 -20															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average	2.55	2.32	2.25	2.24	2.28	2.23	2.33	2.09	2.24	2.41	2.38	2.46	2.40	2.28	2.29
Course - Program outcome matrix of all courses for the Year of study: 2015 -19															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average	2.49	2.19	2.11	1.77	2.03	2.18	2.27	1.89	2.22	2.14	2.2	2.14	2.31	2.14	2.01
Course - Program outcome matrix of all courses for the Year of study: 2014 -18															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average	2.49	2.19	2.11	1.77	2.02	2.17	2.28	1.89	2.22	2.15	2.23	2.14	2.31	2.13	2.01

  
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**Assessment Criteria for each Theory course and its outcomes (Autonomous batches)**

CO	Assessment	Assessment Tool	Assessment Criteria	Data Collection	Faculty responsible	Verified by	
Course Code/ Name	Direct Assessment (75%)	Continuous internal evaluation (10%)	No. of assignments per course = 5 Maximum marks per assignment = 5 Target: 3 Marks i.e. greater than or equal to 60% of total marks.	Five times in a semester per course	Course instructors	Course coordinator	
		Internal Assessment (40%)	No. of Mid Exams (Subjective and Objective) = 2 per course Subjective exam Maximum marks = 15 Objective exam Maximum marks = 10 Subjective Exam Target = 60% of maximum marks. (20%) Objective Exam Target = 60% of maximum marks (10%)	Twice in a semester per course	Course instructors	Course coordinator	
		External Assessment (60%)	End examination (60%)	Once in a Semester per course	Course instructors	Course coordinator	
	Indirect Assessment (25%)	Course End Survey (40%)	Course outcome feedback	Course end survey analysis	Once in a Semester per course	Course instructors	Course coordinator
		TLP Feedback (60%)	Teaching Learning Process feedback	Feedback on TLP process	Twice in a Semester per course	Course instructors	Course coordinator

Course HEAD  
 instructors  
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 Anna University, Chennai - 600 025  
 Page No. 1501/201

Assessment Criteria for each Lab course and its outcome (Autonomous Branch)

CO	Assessment	Assessment Tool	Assessment Criteria	Data Collection	Faculty responsible	Verified by	
Lab Code/ Name	Direct assessment (75%)	Internal Assessment (40%)	No. of Mid Exams = 2 per lab Maximum marks = 30 Target = Class average mark	Twice in a semester per course	Lab instructors	Lab coordinator	
		External Assessment (60%)	End examination (60%)	Once in a Semester per course	Lab instructors	Lab coordinator	
	Indirect Assessment (25%)	Course End Survey (40%)	Course outcome feedback	Course end survey analysis	Once in a Semester per course	Lab instructors	Lab coordinator
		TLP Feedback (60%)	Teaching Learning Process feedback	Feedback on TLP process	Twice in a Semester per course	Lab instructors	Lab coordinator

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Assessment Criteria for each Theory course and its outcomes (Non-Autonomous batches)

CO	Assessment	Assessment Tool	Assessment Criteria	Data Collection	Faculty responsible	Verified by
Course Code/ Name	Direct Assessment (75%)	Internal Assessment (40%)	No. of assignments per course = 5 Maximum marks per assignment = 5 Target: 3 Marks i.e. greater than or equal to 60% of total marks.	Five times in a semester per course	Course instructors	Course coordinator
			No. of Mid Exams (Subjective and Objective) = 2 per course Subjective exam Maximum marks = 10 Objective exam Maximum marks = 10 Subjective Exam Target = 60% of total marks. (20%) Objective Exam Target = Class average marks taken as reference (10%)	Twice in a semester per course	Course instructors	Course coordinator
	Indirect Assessment (25%)	External Assessment (60%) Course End Survey (40%) TLP Feedback (60%)	Maximum marks = 75. Class average marks maintaining minimum pass marks taken as target.	Once in a Semester per course	Course instructors	Course coordinator
			Course end survey analysis Feedback on TLP process	Once in a Semester per course Twice in a Semester per course	Course instructors Course instructors	Course coordinator Course coordinator

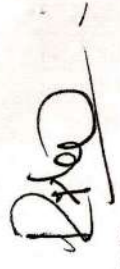
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Assessment Criteria for each Lab course and its outcomes (Non-automated)

CO	Assessment	Assessment Tool	Assessment Criteria	Data Collection	Faculty responsible	Verified by	
Lab Code/ Name	Direct assessment (75%)	Internal Assessment (40%)	No. of Mid Exams = 2 per lab Maximum marks = 25 Target = Class average mark	Twice in a semester per course	Lab instructors	Lab coordinator	
		External Assessment (60%)	End examination (60%)	Once in a Semester per course	Lab instructors	Lab coordinator	
	Indirect Assessment (25%)	Course End Survey (40%)	Course outcome feedback	Course end survey analysis	Once in a Semester per course	Lab instructors	Lab coordinator
		TLP Feedback (60%)	Teaching Learning Process feedback	Feedback on TLP process	Twice in a Semester per course	Lab instructors	Lab coordinator

  
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**Attainment Levels for Mid-term Exams and Semester End Exam (Theory) for Autonomous batches (AR 16 only)**

- Level 1 (Low): If  $\geq 40\%$  to  $< 50\%$  of Students attain the set target
- Level 2 (Medium): If  $\geq 50\%$  to  $< 60\%$  of Students attain the set target
- Level 3 (High): If  $\geq 60\%$  of Students attain the set target

**Attainment Levels for Mid-term Exams and Semester End Exam (Lab) for Autonomous batches (AR 16 only):**

- Level 1 (Low): If  $\geq 50\%$  to  $< 60\%$  of Students attain the set target
- Level 2 (Medium): If  $\geq 60\%$  to  $< 70\%$  of Students attain the set target
- Level 3 (High): If  $\geq 70\%$  of Students attain the set target

**Attainment Levels for Mid-term Exams and Semester End Exam (Theory and Labs) for Non-autonomous batches:**

- Level 1 (Low): If  $\geq 40\%$  to  $< 50\%$  of Students attain the set target
- Level 2 (Medium): If  $\geq 50\%$  to  $< 60\%$  of Students attain the set target
- Level 3 (High): If  $\geq 60\%$  of Students attain the set target

**Attainment Levels for Assignments (Only Theory) and Indirect Assessment (Theory and Lab) for Autonomous and Non-autonomous batches:**

- Level 1 (Low): If  $\geq 60\%$  to  $< 70\%$  of Students attain the set target
- Level 2 (Medium): If  $\geq 70\%$  to  $< 80\%$  of Students attain the set target
- Level 3 (High): If  $\geq 80\%$  of Students attain the set target

**Overall attainment of Theory and Lab Course Outcome = 75% of Direct Attainment + 25% of Indirect Attainment**

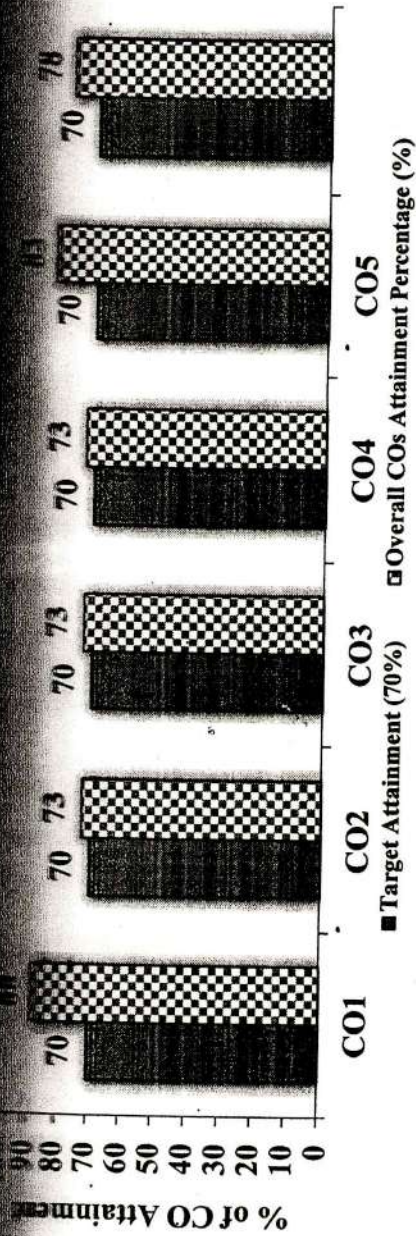
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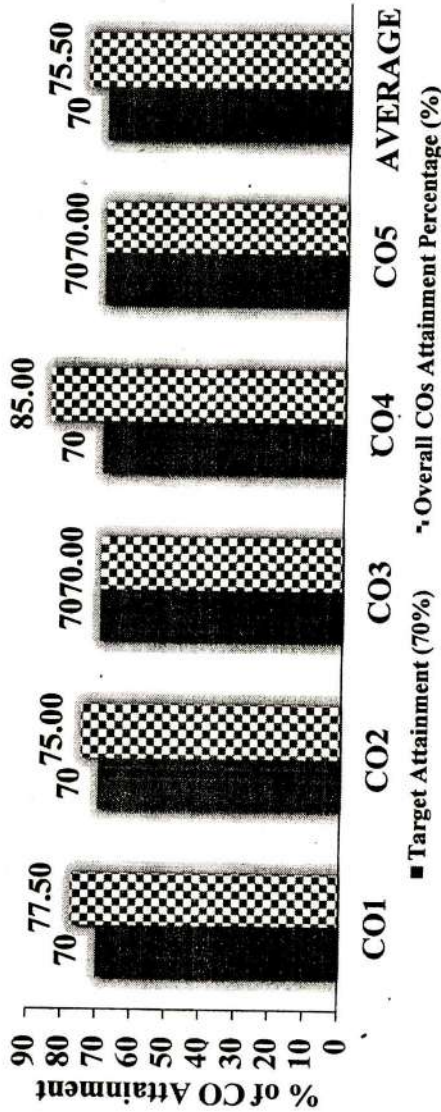
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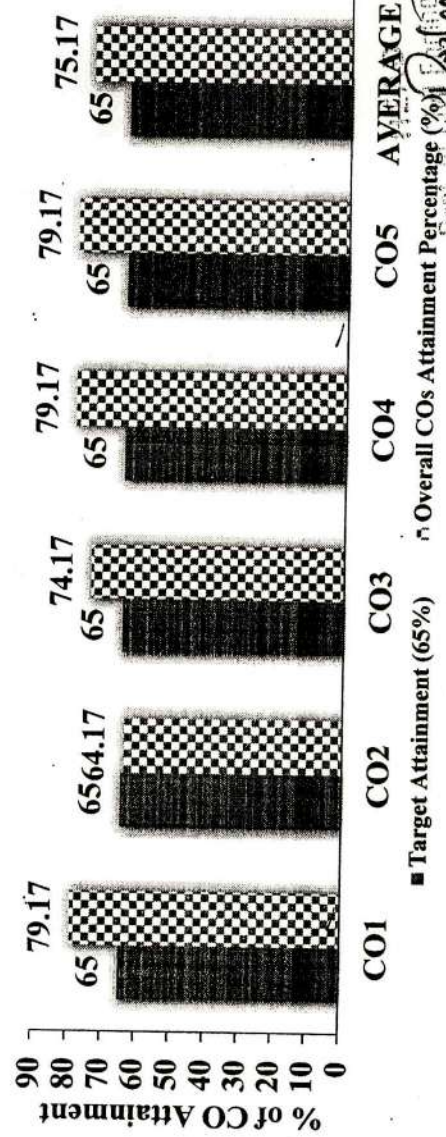
Attainment of Course outcomes against target attainment levels for the Course C223: Concrete Technology for year of study 2016- 20



Attainment levels for the Course C311: Concrete Technology for year of study 2015- 19



Attainment levels for the Course C311: Concrete Technology for year of study 2014 - 18



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**Practicals: 13 courses (out of 13) have attained 70% or more aggregate of learning outcomes**

**Theory: 29 courses (out of 35) have attained 70% or more aggregate of learning outcomes.**

**Attainment levels for the following courses are found to be lower than the target:**

- 1) **C 213 - Strength of Materials – I: Inadequate knowledge in fundamentals of Mathematics and Engineering Mechanics.**
- 2) **C 215 - Fluid Mechanics: Inadequate knowledge in fundamentals of Mathematics and Engineering Mechanics.**
- 3) **C 224 - Strength of Materials – II: Inadequate knowledge in fundamentals of Strength of Materials-I.**
- 4) **C 225 – Hydraulics and Hydraulic Machinery: Inadequate knowledge in fundamentals of Fluid Mechanics.**
- 5) **C 313 – Engineering Hydrology: Inadequate knowledge in the fundamentals of Fluid Mechanics.**
- 6) **C 413 – Health Monitoring and Retrofitting of Structures: Inadequate exposure to real-world problems in retrofitting of structures.**

The course coordinators along with the faculty identified the courses in which a fairly good number of students' performance is found to be wanting. Necessary corrective measures (which includes remedial classes where practice of assignments/tutorial questions) have been taken after an interaction with students.

  
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Chennai (M), R.R. Dist. (T.S.) - 501 301

Year of Study: 2014 - 2018

Practicals: 10 courses (out of 10) have attained 65% or more aggregate of learning outcomes

Theory: 29 courses (out of 33) have attained 65% or more aggregate of learning outcomes.

Attainment levels for the following courses are found to be lower than the target

- 1) C211 - Mathematics-II (A30006) - Inadequate knowledge of Calculus, Fourier Transforms and Numerical Techniques.
- 2) C221 - Probability and Statistics (A40008) - Conducted more tutorial exercises which resulted in Improvement of course attainment for next batches.
- 3) C212 - Electrical and Electronics Engineering (A30203) - Inadequate knowledge in Electrical and Electronics Engineering courses. Taught a few fundamental concepts of electricity and magnetism.
- 4) C322 - Environmental Engineering (A60119) - Lack of practice/ preparation in solving design problems on water and wastewater treatment systems. More of case study approach has been employed which has resulted in the improvement of attainment for next batch.

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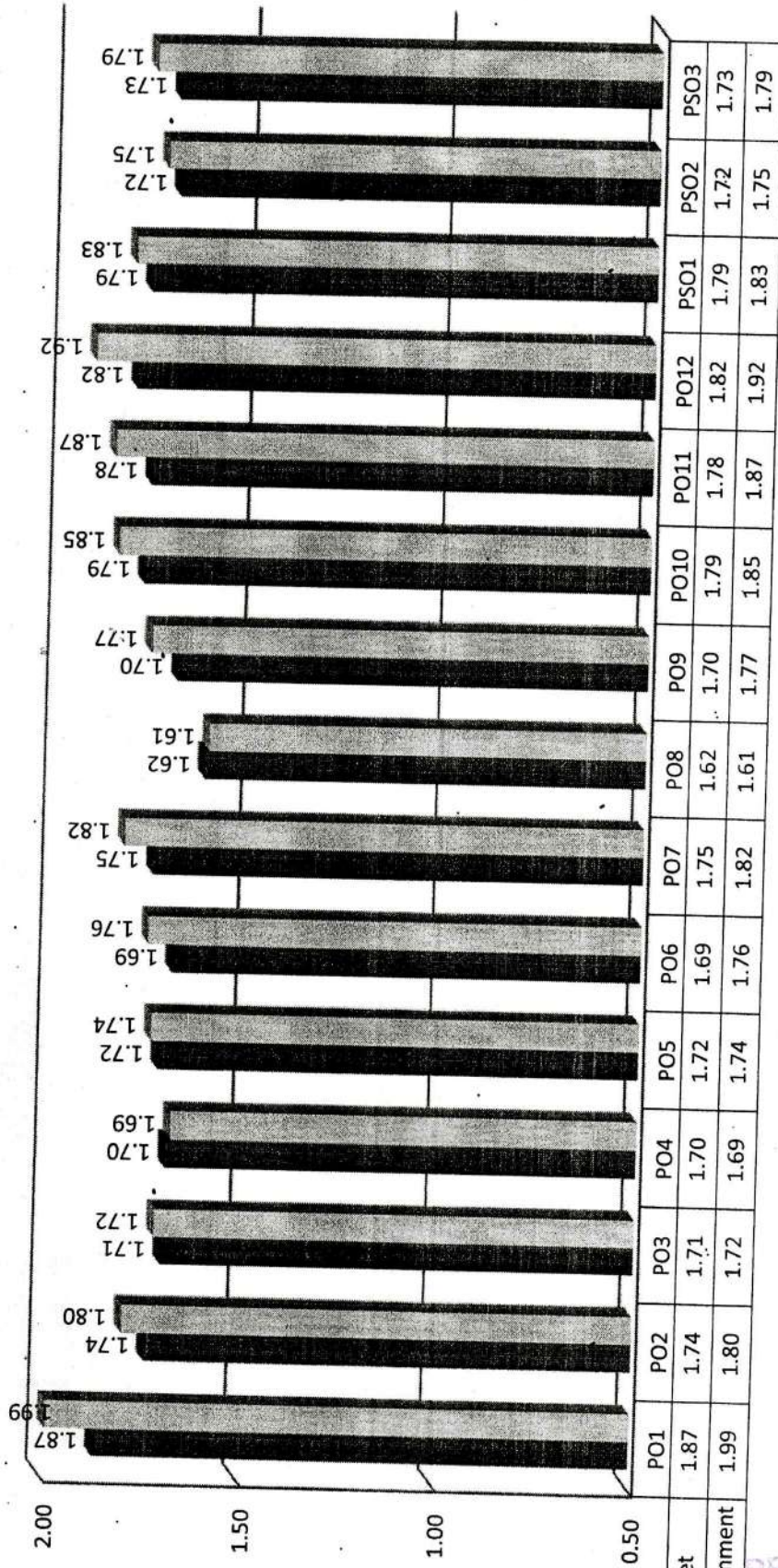
  
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PO and PSO Attainment level values for the year of study: 2016-20 Batch



Pos and PSOs Attainment Level

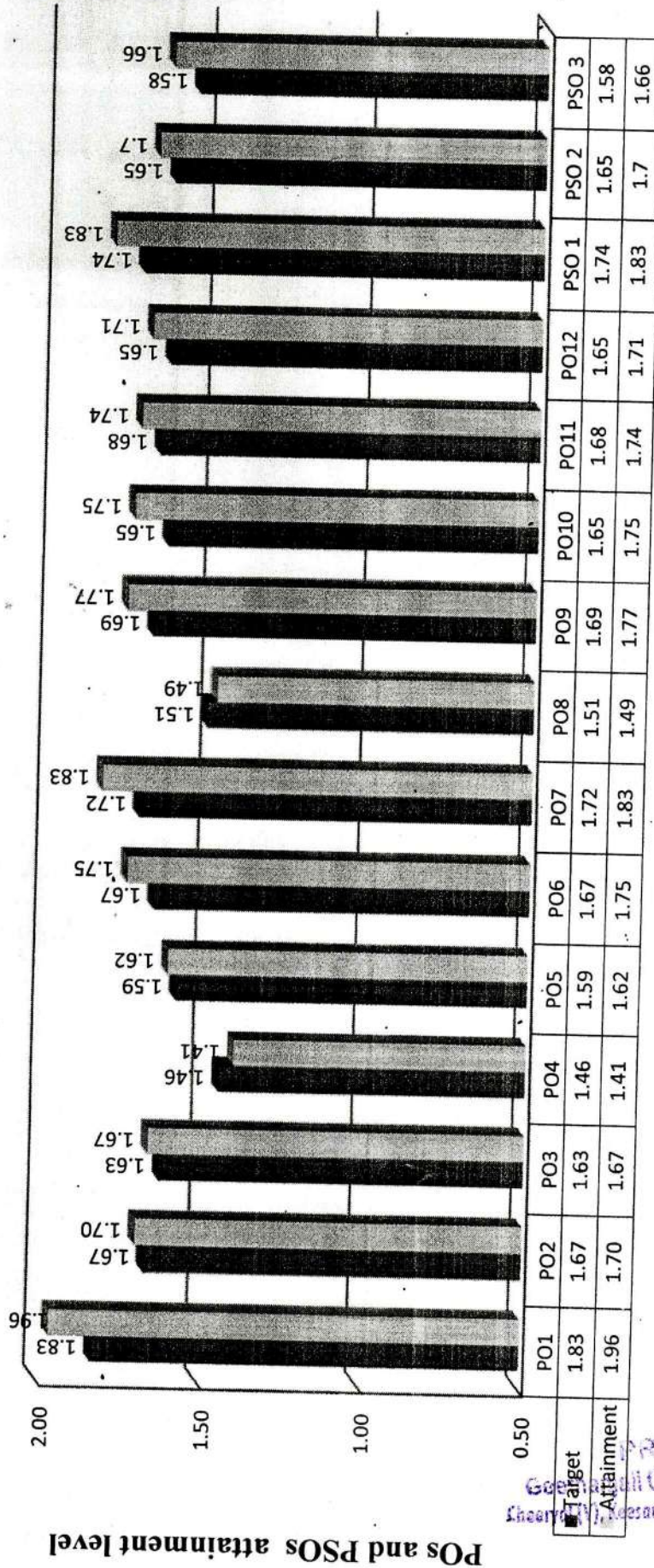
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 Hosur (M), Hosur (K.R. Dist. (K.R.) - 501 301

PO and PSO Attainment level values for the year of study: 2015-19 Batch



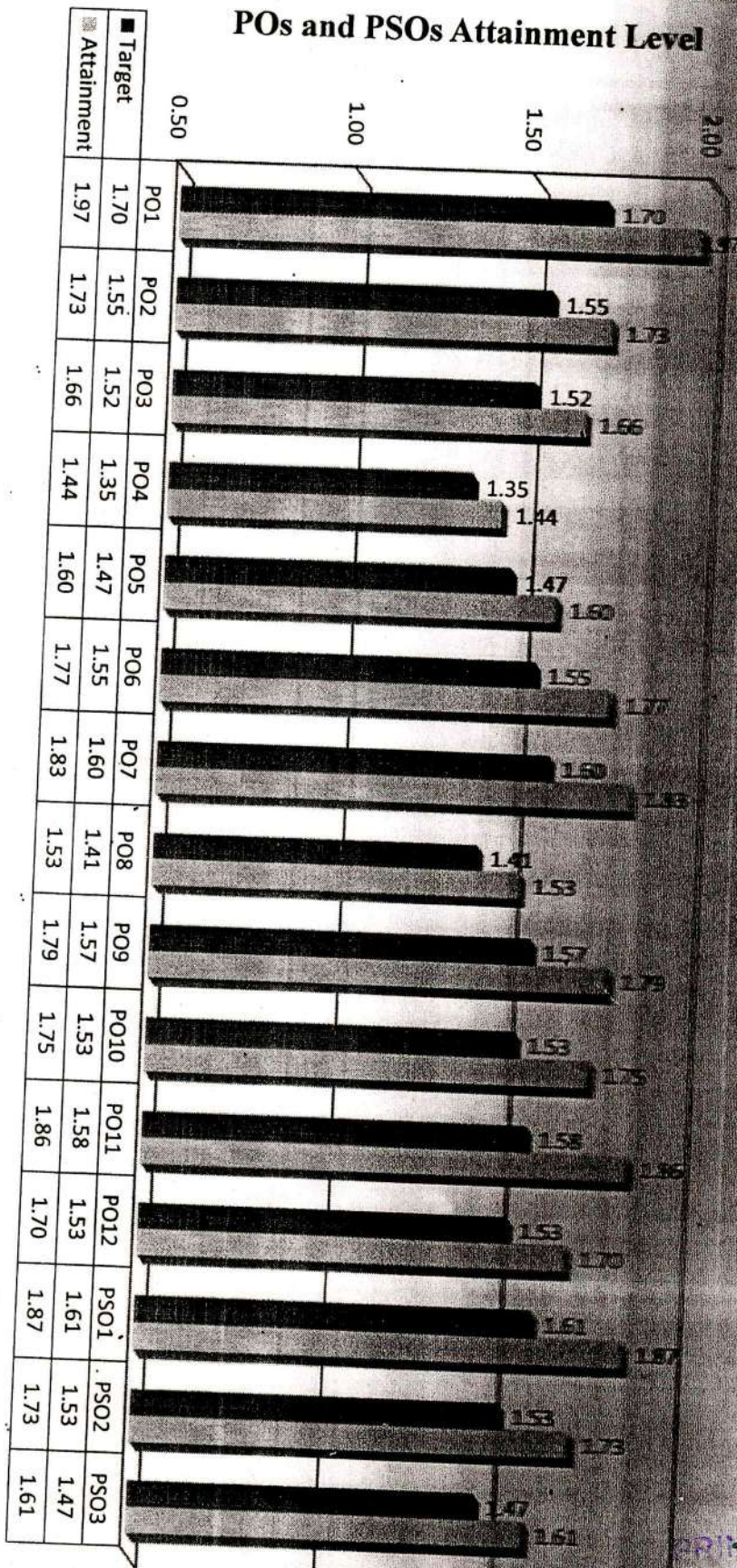
POs and PSOs attainment level

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## POs and PSOs Attainment Level

PO and PSO Attainment level values for the year of study: 2014-18 Batch



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**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Minutes of Meeting of Program Assessment Committee (PAC) held on 02.08.2019**

**Venue: Class Room No:311**

**Duration: 2:00 pm – 3:30pm**

**Members present**

Sl. No.	NAME	ROLE
1.	Dr. T.Siva Prasad, HoD	Chairman, PAC, B.Tech Program
2.	Dr.S.Shyam Kumar	Member
3.	Dr. M.Devaiah	Member
4.	Dr.Subhash kamal	Member
5.	Dr.S.Sapthagiri	Member
6.	K.Jithender Reddy	Member
7.	B.Subba Rao	Member
8.	R.Sudharshan	Member
9.	P.Sudheer Rao	Member

**Agenda:**

1. Analysis of Second semester results of II B.Tech ME (Autonomous), III B.Tech ME (JNTUH) and IV B.Tech ME (JNTUH) for the Academic Year 2018-19
2. Conduct of workshops to students
3. Manotron- Technical fest and Project Exhibition
4. Procedure to compute CO attainment level for Autonomous curriculum courses and JNTUH Curriculum Courses
5. Procedure to compute PO attainment level
6. Procedure to compute P<sub>3</sub>O attainment level

**Resolutions:**

Chairman, PAC started the meeting by welcoming all the members.

The following resolutions were made in this meeting:

1. Second semester results of II B.Tech ME, III B.Tech and IV B.Tech for the Academic year 2018-19 are reviewed.
  - i. Overall pass percentage in II B.Tech II sem( MECH-A) is 62.69%, which is improved by 7.69% compared to the previous batch of students.
  - ii. Overall pass percentage in II B.Tech II sem( MECH-B) is 71.64%, which is improved by 23.16% compared to the previous batch of students.
  - iii. Pass percentage of the students in Fluid Mechanics and Hydraulic Machines is low ( i.e 79.10(MECH-A) and Pass percentage of the students in Thermal Engineering -1 is low 77.61 (MECH-B)) compared to other courses.
  - iv. Overall pass percentage in III B.Tech II sem(MECH-A) is 55%, which is increased by 26.43 % compared to the previous batch of students. The result of the batch is same compared to their result in II B.Tech II semester
  - v. Overall pass percentage in III B.Tech II sem(MECH-B) is 48.48%, which is increased by 1.81 % compared to the previous batch of students. The result of the batch is same compared to their result in II B.Tech II semester
  - vi. Pass percentage of the students in Dynamics of Machinery is low ( i.e 55% (MECH-A) and 51% (MECH-B)) compared to other courses.
  - vii. Overall pass percentage in IV B.Tech II( MECH-A) sem is 69.64%, which is increased by 28.97% compared to the previous batch of students. The result of the batch is improved by 41.07% compared to their result in III B.Tech II semester.

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- viii. Overall pass percentage in IV B.Tech II( MECH-B) sem is 85%, which is increased by 33.08% compared to the previous batch of students. The result of the batch is improved by 38.33% compared to their result in III B.Tech II semester
- ix. Pass percentage of the students in Renewable Energy Resources and Power Plant Engineering is low ( i.e 73.21 (MECH-A) and 91.67% (MECH-B)) compared to other courses.
- 2. The committee identified the need to conduct more workshops to students in the field of Thermal, Production, Manufacturing etc., to make the students aware and train in latest technological developments. Further it helps the students to do major and mini projects in their interested areas.
- 3. The committee is suggested to continue of conducting MANOTRON 2020, a technical fest and Project exhibition and also advised to invite the final year students of other institutes for this fest.
- 4. The committee has elaborated discussion on the procedure for computing the CO attainment level. It is suggested to have different procedure for Autonomous and JNTUH curriculum courses.
- 5. The committee has elaborated discussion on the procedure for computing the PO attainment level of B.Tech ME Program.
- 6. The committee has elaborated discussion on the procedure for computing the PEO attainment level of B.Tech ME Program.

**Action points:**

- 1. The committee is recommended to have a different teaching methodology which suits that particular course so that the delivery mechanism is efficient and further to improve the outcomes of the course. The committee is also emphasized to have more tutorials to the courses which are more problem (mathematical) oriented to improve problem solving capability of the students by applying various concepts learned. It is also suggested to have remedial classes to make slow learners on par with other students, especially for lateral entry students.
- 2. The committee is requested the specialization group heads of Thermal to conduct workshops to students in the field of thermal related area.
- 3. The committee has requested Mr.P.Sudheer Rao to conduct MANOTRON 2019, a technical fest and Project exhibition inviting other college students also.
- 4. The committee has recommended the following:
  - i. the process of computing CO attainment level with the corresponding weightage for both Direct attainment and Indirect attainment methods.
  - ii. the process of computing PO attainment level with the corresponding weightage for both Direct attainment from CO attainment levels and Indirect attainment from the exit feedback taken on POs from final year students and Alumni feedback on POs.
  - iii. the process of computing PEO attainment level with the corresponding weightage for both Direct attainment from PO attainment levels and Indirect attainment from the feedback taken on PEOs from Employers, Alumni and Parents.

The committee also requested the Program Coordinator to put forward the above procedures and get the approval for implementation.

Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:30 pm

  
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**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Minutes of Meeting of Program Assessment Committee (PAC) held on 16.09.2019**  
**Venue: Class Room No: 311** **Duration: 2:00 pm – 3:30pm**

Members present

Sl. No.	NAME	ROLE
1.	Dr.S.Shyam Kumar	Chairman, PAC, B.Tech Program
2.	Dr. M.Devaiah	Member
3.	Dr.Subhash kamal	Member
4.	Dr.S.Sapthagiri	Member
5.	K.Jithender Reddy	Member
6.	B.Subba Rao	Member
7.	R.Sudharshan	Member
8.	P.Sudheer Rao	Member

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**Agenda:**

- Discussion on course structure considering the ongoing requirement of subjects in industry.
- Conducting various activities to students
- Procedure to compute CO-PO & PSO Mapping and also to compute PO & PSO attainment level.
- Placement training.
- Teaching learning process.

**Resolutions:**

Chairman, PAC started the meeting by welcoming all the members.  
The following points were discussed in this meeting:

- The committee has elaborated discussion on framing the course structure keeping in mind the latest developments in industry and also to emphasize the importance of each subject and its applications.
- The committee identified the need to conduct more Workshops, Guest Lectures, Industrial visits and Value Added Courses to students in the field of Thermal, Production and Manufacturing etc, to make the students aware and train in latest technological developments. Further it helps the students to do major and mini projects in their interested areas and also emphasize them to participate in technical seminars.
- The committee identified the need to conduct Faculty Development Program to faculty members as in recent times, trends are changing and faculty members have to update their skills depending upon the requirement.
- The committee has elaborated discussion on NPTEL courses to be registered by the faculty members once in a semester which would help them in their academic performance index.

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- The committee has elaborated discussion on the procedure for computing the CO attainment level. It is suggested to have different procedure for Autonomous and JNTUH curriculum courses.
- The committee is recommended to have a different teaching methodology which suits that particular course so that the delivery mechanism is efficient and further to improve the outcomes of the course. The committee has also elaborated discussion on "Project Based Learning" to be conducted on few subjects by selecting students who are good in academics and train them with new ideas and experiments.
- The committee is also emphasized to give more assignments and tutorials to the courses which are more problematic (mathematical) oriented to improve problem solving capability of the students by applying various concepts learned. It is also suggested to conduct remedial classes to make slow learners on par with other students, and also motivate fast learners to do projects for better understanding of the course.
- The committee has elaborated discussion on the procedure for computing the CO-PO & PSO Mapping and also to compute CO-PO & PSO attainment level.
- The committee has also elaborated discussion on Students mentoring personally and professionally as students spend most of the time in the college premises.
- The committee is also emphasized to come up with new ideas in research and development by establishing equipments and the same would be inculcated to students.

The committee also requested the Program Coordinator to put forward the above procedures and get the approval for implementation.

Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:30 pm

  
HOD

  
PRINCIPAL  
Geethanjali College of Engg. Tech.  
Keesara (V), Keesara (M), P.R. Dist. (A.P.) - 501 201

**Course-Program outcome matrix for the Year of study: 2016-20 (Autonomous)**

Year of Study: 2016-20 (AR 16)														
Sl.no	Course Index	Name of the Course with Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
1	C101	English-I (16EN1101)	-	-	-	-	2	2	-	2	3	3	-	3
2	C102	Engineering Physics (16PH1101)	3	3	-	-	-	-	-	-	2	-	-	2
3	C103	Mathematics – I (16MA1101)	3	2	2	-	-	2	-	-	-	-	-	3
4	C104	Introduction to Computer Programming (16CS1102)	3	2	-	2	-	-	-	2	2	-	-	2
5	C105	Engineering Drawing (16ME1101)	3	2.4	-	-	2.6	-	-	-	2.4	-	-	2.6
6	C106	Engineering Mechanics – I (16ME1102)	3	3	3	-	-	-	-	-	-	-	-	3
7	C107	Engineering Physics Lab (16PH11L1)	3	3	-	-	-	-	-	-	2	-	-	2
8	C108	Computer Programming Lab (16CS11L2)	3	2	-	2	2	-	-	2	2	-	-	2
9	C109	Engineering Workshop (EWS) / Information Technology Workshop (ITWS) (16WS11L1)	1.8	1.25	1.5	2.4	-	1	1	1	1.25	-	-	3
10	C110	English –II (16EN1201)	-	-	-	-	-	2	-	2	3	3	-	3
11	C111	Physics for Engineers (16PH1203)	3	3	-	-	-	-	-	-	2	-	-	2
12	C112	Mathematics-II (16MA1201)	3	2	2	-	-	2	-	-	-	-	-	3
13	C113	Engineering Chemistry (16CH1201)	2	2	2	-	-	-	2	-	-	-	-	3
14	C114	Environmental Studies (16CH1202)	2	2	2.2	-	2	2	3	-	-	-	-	3
15	C115	Engineering Mechanics –II (16ME1201)	3	3	3	-	-	-	-	-	-	-	-	3

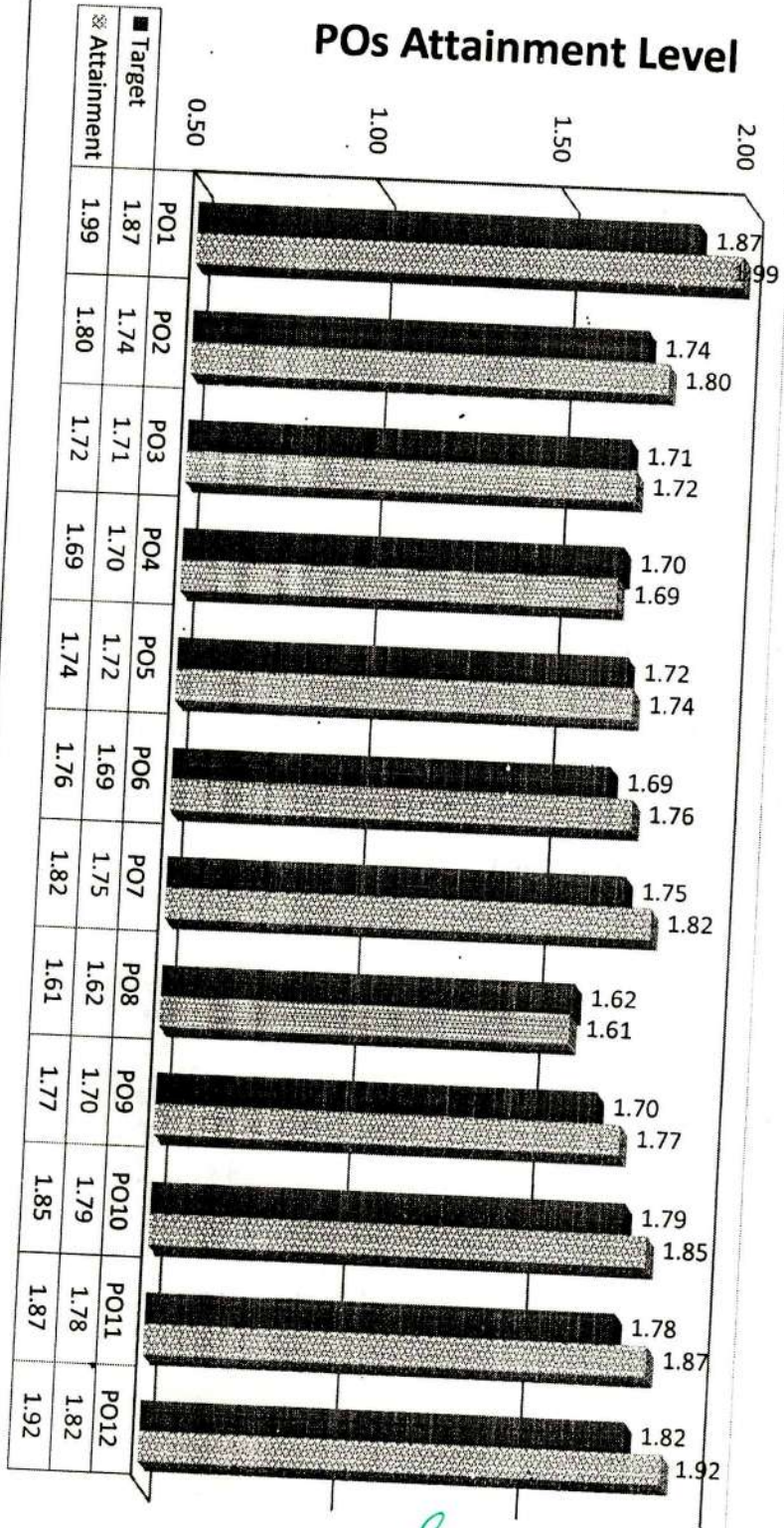
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		<b>Softcore Elective-I: Advanced Structural Design (16CCE3206)</b>	2.73	2.73	2.73	2.73	-	1.82	-	1.99	-	-	-	2.73
50	C327	<b>Environmental Engineering Lab (16CCE32L1)</b>	1.40	-	-	1.82	1.82	1.68	2.10	1.82	1.68	1.40	-	1.82
51	C328	<b>Softcore Elective-I Lab: Geographic Information System Lab(16CCE32L2)</b>	1.23	1.54	1.54	1.63	1.82	1.17	2.10	1.40	1.40	1.05	-	1.40
		<b>Softcore Elective-I Lab: Advanced Structural Design Lab (16CCE32L3)</b>	1.86	2.79	2.79	-	2.79	1.86	-	1.85	1.86	-	1.67	2.79
52	C329	<b>Human Values and Professional Ethics (16MB32P1)</b>	-	-	-	-	-	1.90	2.16	2.16	1.44	2.18	2.16	2.16
53	C411	<b>Estimation, Costing &amp; Contracts (16CCE4101)</b>	2.00	0.91	-	1.26	-	1.82	-	1.82	-	-	1.73	1.37
54	C412	<b>Professional Elective-I: Air and Water Transportation (16CCE4103)</b>	2.13	1.42	1.84	1.55	-	1.95	1.30	1.30	1.30	1.30	-	1.94
		<b>Professional Elective-I: Ground Improvement Techniques (16CCE4104)</b>	1.93	-	1.93	1.92	-	1.59	1.65	1.59	-	-	-	1.92
55	C413	<b>Professional Elective-II: Health Monitoring and Retrofitting of Structures (16CCE4107)</b>	1.55	1.19	1.05	1.66	1.86	1.31	-	1.21	-	-	-	1.20
56	C414	<b>Open Elective - II: Supply Chain Management (16MB4131)</b>	1.60	-	-	-	-	2.34	1.93	1.43	-	1.93	1.53	1.37
57	C415	<b>Open Elective - III: Banking and Insurance (16MB4141)</b>	1.55	-	-	-	-	1.68	1.98	2.40	-	1.96	1.53	1.81
58	C416	<b>Softcore Elective-II: Pavement Analysis and Design (16CCE4111)</b>	2.14	1.83	1.52	1.55	-	-	1.53	-	-	-	-	-
59	C417	<b>Computer Aided Structural Drafting Laboratory (16CCE41L1)</b>	0.70	-	1.26	-	1.40	-	-	-	1.40	-	-	2.10

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## POs Attainment Level



POs Attainment levels against target levels for the year of study 2016 – 20 (Autonomous)

**HEAD**  
 Dept. of Civil Engineering  
 Gopimani College of Engg. and Tech.  
 Cheruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 302

*[Signature]*

*[Signature]*  
 Gopimani College of Engg. Tech.  
 Cheruvu (V), Keesara (M), R.R. Dist. (A.P.) - 501 302





PRINCIPAL  
 Geethanjali College of Engg. Tech,  
 Chennai (M), Keeranur (M), R.R. Dist. (A.R.) - 501 301

27	C218	Computational Mathematics Lab (16MA21L1)	-	1.50	-
28	C221	Probability and Statistics (16MA2201)	-	1.47	-
29	C222	Engineering Geology (16CE2201)	1.14	1.45	1.45
30	C223	Concrete Technology (16CE2202)	2.33	1.99	-
31	C224	Strength of Materials - II (16CE2203)	1.88	0.88	-
32	C225	Hydraulics and Hydraulic Machinery (16CE2204)	1.47	1.06	-
33	C226	Engineering Geology Lab (16CE22L1)	1.04	1.49	1.47
34	C227	Concrete Technology Lab (16CE22L2)	1.40	-	-
35	C228	Fluid Mechanics and Hydraulic Machinery Lab (16CE22L3)	2.10	1.23	-
36	C311	Structural Analysis (16CE3101)	2.16	-	-
37	C312	Design of Reinforced Concrete Structures (16CE3102)	2.10	1.92	-
38	C313	Engineering Hydrology (16CE3103)	1.79	1.43	-
39	C314	Transportation Engineering (16CE3104)	2.15	1.74	1.55
40	C315	Geotechnical Engineering (16CE3105)	1.35	1.74	-
41	C316	Transportation Engineering Lab (16CE31L1)	1.40	-	-
42	C317	Geotechnical Engineering Lab (16CE31L2)	0.84	0.93	1.40
43	C318	Advanced English Communication Skills Lab (16EN31L1)	-	2.25	-
44	C321	Design of Steel Structures (16CE3201)	1.87	1.87	-
45	C322	Foundation Engineering (16CE3202)	2.04	1.59	1.68
46	C323	Environmental Engineering (16CE3203)	1.99	1.36	-
47	C324	Irrigation Engineering (16CE3204)	1.95	1.95	-
48	C325	Open Elective - I: Intellectual Property Rights (16MB3221)	-	2.21	1.47
48	C325	Open Elective - I: Industrial Safety and Hazards (16EB3222)	2.08	2.07	-
49	C326	Software Elective-I: Geographic Information System (16CE3205)	1.58	1.28	1.58
49	C326	Software Elective-I: Advanced Structural Design (16CE3206)	2.73	2.73	2.73

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50	C327	Environmental Engineering Lab (16CE32L1)	1.40	-	-
51	C328	Software Elective-I Lab: Geographic Information System Lab (16CE32L2)	1.63	1.40	2.10
		Software Elective-I Lab: Advanced Structural Design Lab (16CE32L3)	2.60	2.79	2.79
52	C329	Human Values and Professional Ethics (16MB32P1)	-	2.18	-
53	C411	Estimation, Costing & Contracts (16CE4101)	2.00	2.00	-
54	C412	Professional Elective-I: Ground Improvement Techniques (16CE4104)	1.59	1.75	-
		Professional Elective-I: Air and Water Transportation (16CE4103)	1.41	1.77	1.61
55	C413	Professional Elective-II: Health Monitoring and Retrofitting of Structures (16CE4107)	1.55	1.22	-
56	C414	Open Elective - II: Supply Chain Management (16MB4131)	1.40	2.78	1.68
57	C415	Open Elective - III: Banking and Insurance (16MB4141)	1.55	1.50	-
58	C416	Software Elective-II: Pavement Analysis and Design (16CE4111)	2.14	1.55	2.02
59	C417	Computer Aided Structural Drafting Laboratory (16CE41L1)	1.82	2.10	2.10
60	C418	Software Elective-II Lab: Pavement Analysis and Design Lab (16CE41L3)	1.80	2.20	2.00
61	C419	Industry Oriented Mini-project (16CE41I2)	1.88	1.80	1.50
62	C420	Major Project Seminar (16CE41I3)	2.06	1.80	1.50
63	C421	Construction Technology & Project Management (16CE4201)	2.17	2.52	1.63
64	C422	Professional Elective-III: Railway Engineering (16CE4205)	2.38	2.22	-
65	C423	Open Elective - IV: Entrepreneurship (16MB4251)	2.38	-	-
		Open Elective - IV: Materials Handling (16ME4255)	2.30	2.30	-
66	C424	Technical Seminar (16CE4206)	1.35	-	-
67	C425	Comprehensive Viva Voce (16CE4207)	2.25	1.50	-