

Welcome to the **NBA Expert Team**



Faculty, Staff & Students
Department of Computer Science and Engineering
KG REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT PHILOSOPHY



Student Intake
UG: B. Tech(CSE) –120



Faculty – 28
Support Staff – 04



No. of Laboratories –08
No. of Computers – 240, Servers – 02



Canvas, Learning Management System (LMS)
BigBlueButton for live online Classes
Light board studio for recording



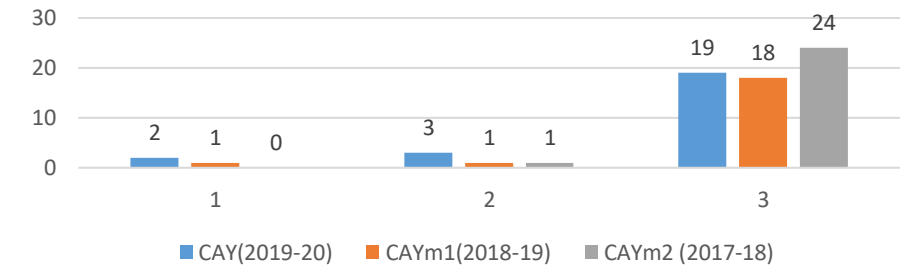
Department Library
Titles – 58, Volumes – 70
NPTEL & other offline courses

09 Batches

700+ Graduates

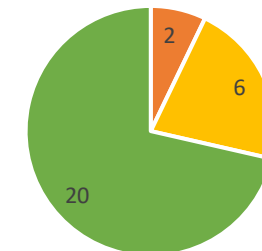
Faculty Cadre Proportion

Faculty Cadre Proportion







Faculty Information

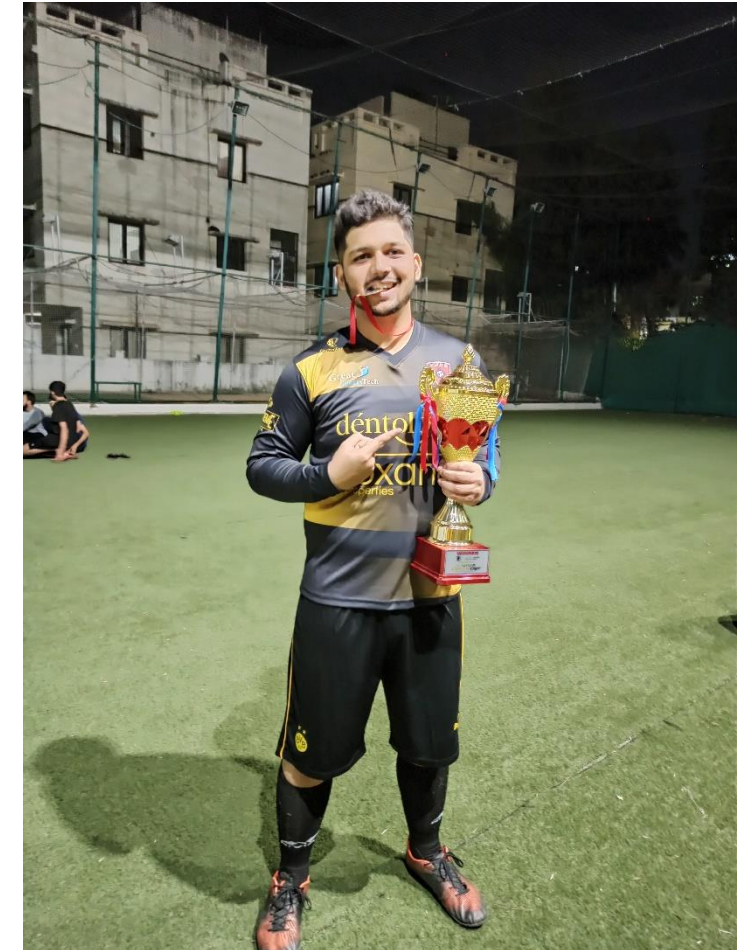
Faculty Information



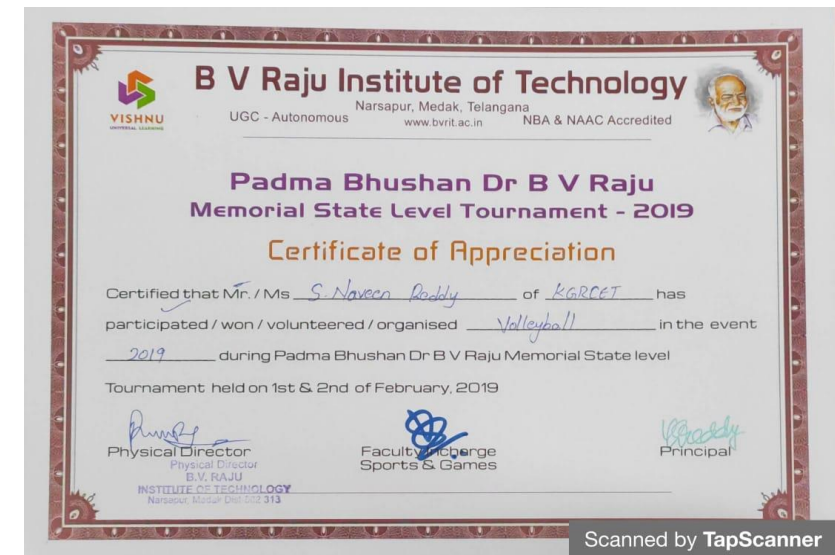
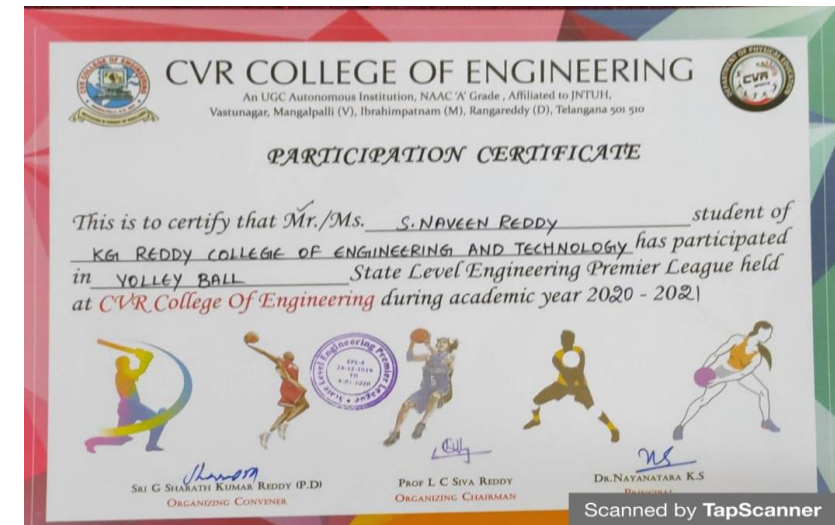
STUDENT ACHIEVEMENTS

NAME	Achievement	Photo
Mr. Zabi Khan (Padma Shree Nominee-2020) (https://www.wikifolder.com/za-bi-khan/)	National Youth Icon for Humility in 2018 , Pride of Telangana, In 2017, he also received the honor of Ashoka Youth Venturer and Rise Young Citizen.	
Mr. Tarun Kotagiri	Internshala certificate of Excellence Talkathon Competition. HAMARI PACHAN virtual volunteer in Digital Media Marketing.	
Mr. Naveen	Inter-college tournament winner in Volleyball	
Mr. Furqan Ali	Foot Ball Tournament Winner	

STUDENT ACHIEVEMENTS

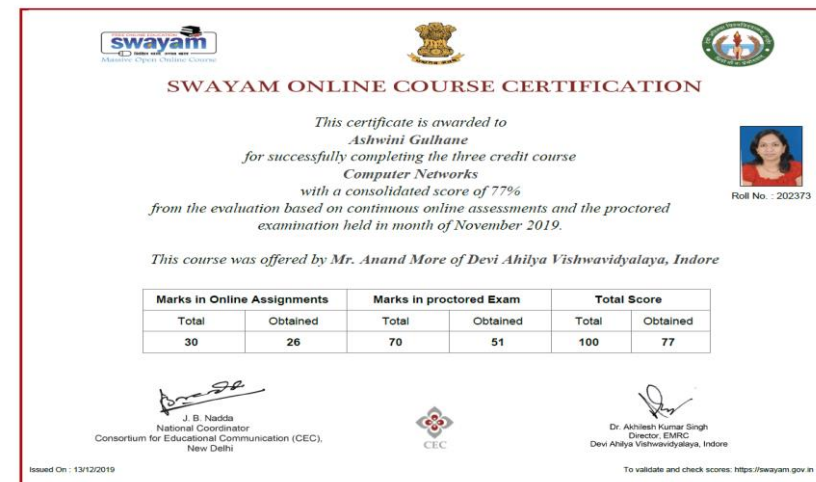
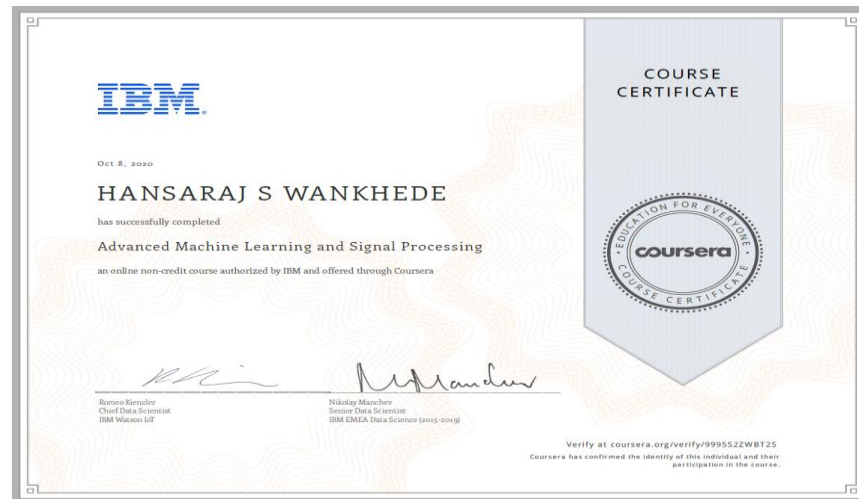


STUDENT ACHIEVEMENTS



FACULTY ACHIEVEMENTS/RECOGNITIONS

Year	FDP	Workshops	STTP	Online Courses
2020-21	74	17	14	82
2019-20	40	-	07	56
2018-19	-	01	16	-



ACHIEVEMENTS

Achievements/Recognitions	As on 30.07.2021
Students Publications	07
Professional activities(CSI, IEEE)	12
Internships	31
Participation in National/State level events	Yes

NO. OF GRADUATES

Passing Year	Total No. Students	No. of Graduates
2021	120	110
2019	120	98
2018	120	90
2017	120	86
2016	120	38

Description	2021 Passed outs	2020 Passed outs	2019 passed outs	2018 Passes outs	2017 passed outs
Placements	42 (On Going)	60	31	24	60
Higher Studies	-	9	17	13	9
Entrepreneurs	-	-	2	-	-

INSTITUTION VISION

To become self-sustainable institution which is recognized for its new age engineering through innovative teaching and learning culture, inculcating research and entrepreneurial ecosystem, and sustainable social impact in the community.

INSTITUTION MISSION

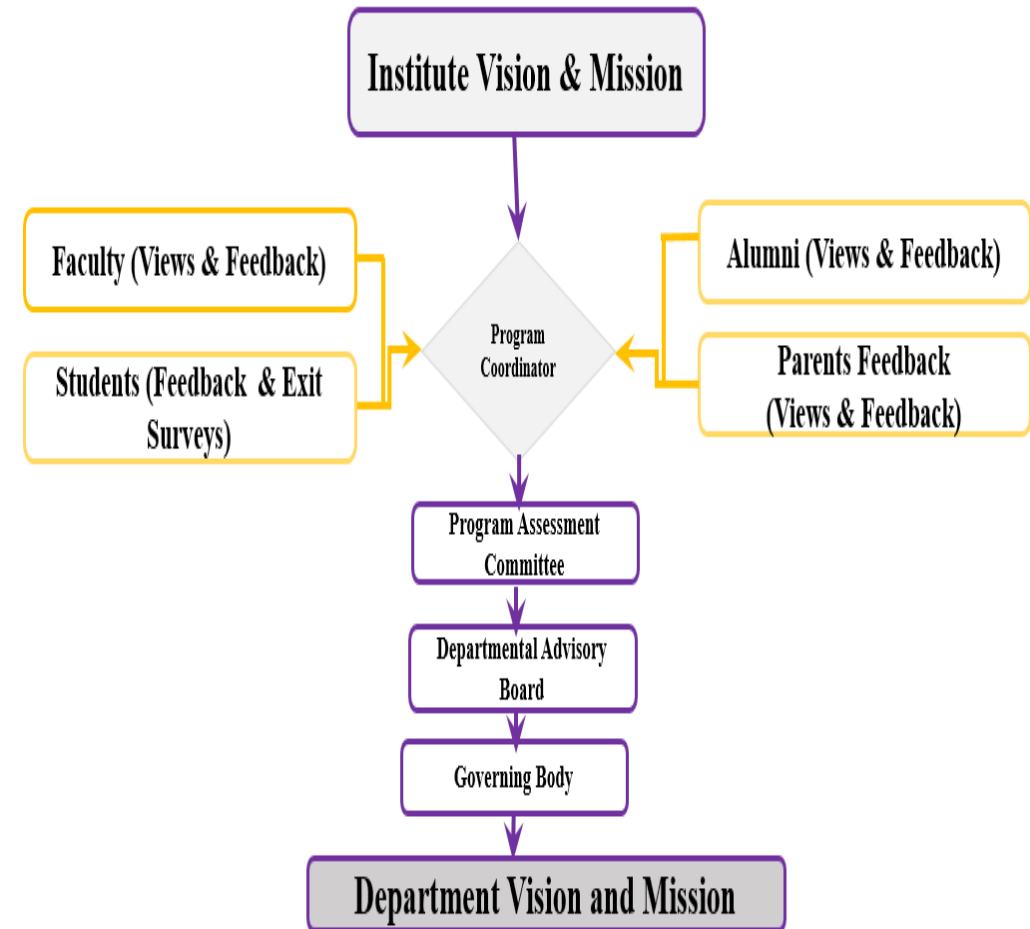
- To offer undergraduate and post-graduate programs that is supported through industry relevant curriculum and innovative teaching and learning processes that would help students succeed in their professional careers.
- To provide necessary support structures for students, this will contribute to their personal and professional growth and enable them to become leaders in their respective fields.
- To provide faculty and students with an ecosystem that fosters research and development through strategic partnerships with Government organizations and collaboration with industries.
- To contribute to the development of the region by using our technological expertise to work with nearby communities and support them in their social and economic growth.

DEPARTMENT VISION

To be recognized as a department of excellence by stimulating a learning environment in which students and faculty will thrive and grow to achieve their professional, institutional and societal goals.

DEPARTMENT MISSION

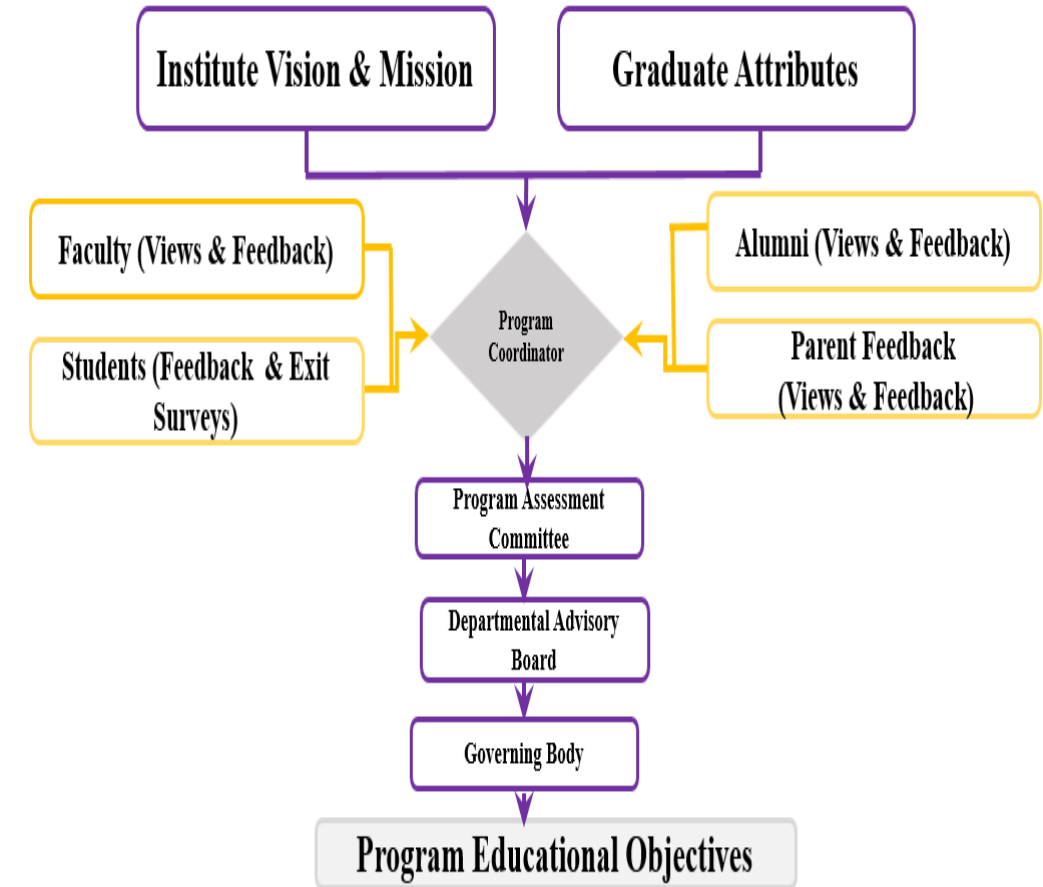
- To provide high quality technical education to students that will enable life-long learning and build expertise in advanced technologies in Computer Science and Engineering.
- To promote research and development by providing opportunities to solve complex engineering problems in collaboration with industry and government agencies.
- To encourage professional development of students that will inculcate ethical values and leadership skills while working with the community to address societal issues.



Process of defining Vision and Mission

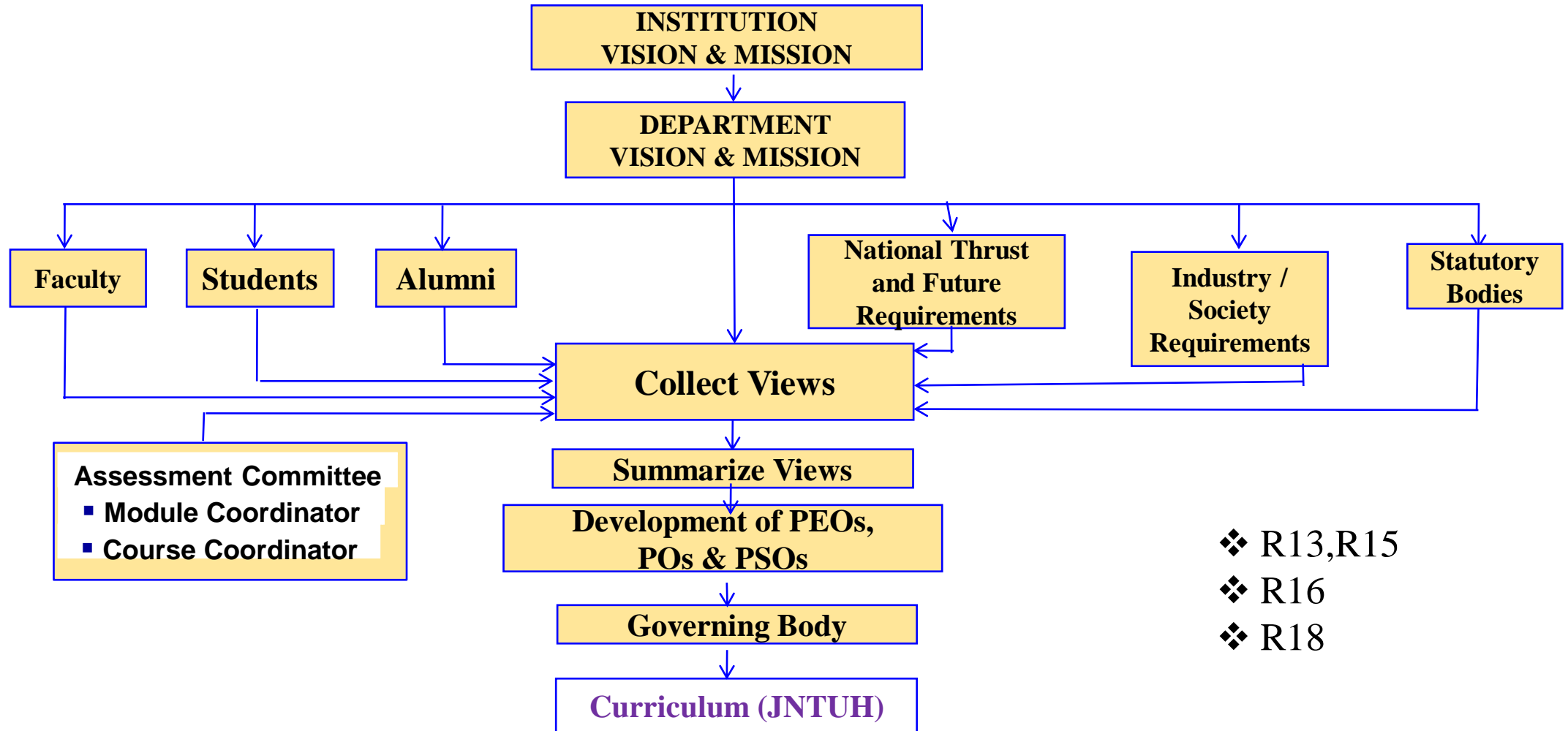
PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO No	Program Educational Objectives Statements
PEO1	Graduates will provide solutions to difficult and challenging issues in their profession by applying computer science and engineering theory and principles.
PEO2	Graduates have successful careers in computer science and engineering fields or will be able to successfully pursue advanced degrees.
PEO3	Graduates will communicate effectively, work collaboratively and exhibit high levels of professionalism, moral and ethical responsibility.
PEO4	Graduates will develop the ability to understand and analyze Engineering issues in a broader perspective with ethical responsibility towards sustainable development.



Process of PEOs definition

PROCESS FOR DESIGNING THE PROGRAM CURRICULUM



TEACHING-LEARNING PROCESS

TLP Activities

- ❖ Chalk And Talk
- ❖ Expert Lectures
- ❖ Skill Development Programs
- ❖ Experimental Learning
- ❖ Value-Added Courses
- ❖ Workshops & Guest Lectures
- ❖ Group Discussions
- ❖ Technical Quiz/ Seminars
- ❖ LMS-Google Sites/Canvas
- ❖ MOOCs

SLOW LEARNERS

Remedial Classes

Mentor-Mentee
System

Courseera /NPTEL
Certification Courses

ADVANCED LEARNERS

Content beyond the syllabus

Encouraging to participate
in research

Technical paper
presentation

Participation in technical
activities

Project Based Assignments

STUDENTS PROJECTS, INTERNSHIPS AND INDUSTRIAL VISITS

STUDENT PROJECT

	2019-20	2018-19	2017-18
Total number of batches (Projects)	24	25	21
Projects in Institute	24	24	20
Projects to Models	-	-	-
Paper publications	01	05	-



Students Projects

STUDENT INDUSTRIAL VISITS / INTERNSHIPS

Industrial visits	3	1	2
Internships	28	1	-



SMART CHAIR – A Mini Project

Program Outcomes – Program Specific Outcomes

PO. No.	PO Description in brief
PO1	Engineering knowledge
PO2	Problem analysis
PO3	Design/development of solutions
PO4	Conduct investigations of complex problems
PO5	Modern tool usage
PO6	The engineer and society
PO7	Environment and sustainability
PO8	Professional Ethics
PO9	Individual and team work
PO10	Communication
PO11	Project management and finance
PO12	Life-long learning

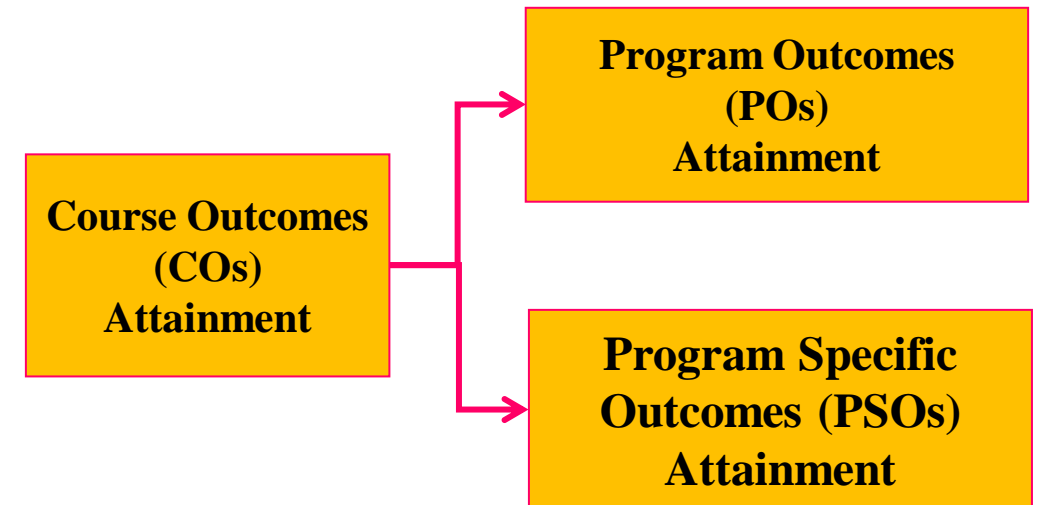
PSO. No.	PSO Description in brief
PSO1	Graduate will be able to apply computational techniques and software principles to solve complex engineering problems pertaining to software engineering.
PSO2	Graduate will be able to think critically, communicate effectively, and collaborate in teams through participation in co and extra-curricular activities.
PSO3	Graduates will possess a solid foundation in computer science and engineering that will enable them to grow in their profession and pursue lifelong learning through post-graduation and professional development.

CO (DIRECT) ATTAINMENT PROCEDURE

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	1	1	3	3	3	3	2
CO2	3	2	2	1	2	1	1	-	1	-	3	2	2	3	2
CO3	3	3	2	1	2	1	1	-	1	-	3	3	3	3	2
CO4	3	2	2	1	2	1	1	-	1	-	3	2	2	2	2

COs	Total Mid Examination Attainment %	Semester End Examination Attainment %	Total Attainment %	Attained Level
CO1	94.02	93.02	93.32	3
CO2	92.96	93.02	93.00	3
CO3	72.00	93.02	86.71	3
CO4	68.80	93.02	85.75	3
Average Attainment	81.94	93.02	89.70	3

16QM1A0554	MENTHULA THANUJA		5		5	0.5
16QM1A0555	MORE HEMANTH	4	3			0.5
16QM1A0556	MYADAM SNEHITHA		3	2		0.5
16QM1A0557	NAGULAPATI DEEPIKA	5	5			0.5
Threshold Level (40% of Marks)		2	2	2	2	0.2
No of Students Attempted the Question (NSAQ)		33	36	9	8	43
Attempted %		76.74	83.72	20.93	18.60	100.00
Number of Students Got >=40% marks (NSG)		33	36	9	8	32
% of Students Attained >=40% Marks = (NSG / NSAQ)*100		100.00	100.00	100.00	100.00	74.42
Question Number(QN)		Q1	Q2	Q3	Q4	Q1
Marks Alloted for Question(MAQ)		5	5	5	5	0.5
Course Outcomes (CO)		CO1	CO1	CO2	CO2	CO1
CO Attainment						
	CO Attainment	Desc.	Quiz	Assi.	Total	Achieved Level
	CO1 Attainment	100.00	79.07	100.00	94.02	3
	CO2 Attainment	100.00	75.35	100.00	92.96	3



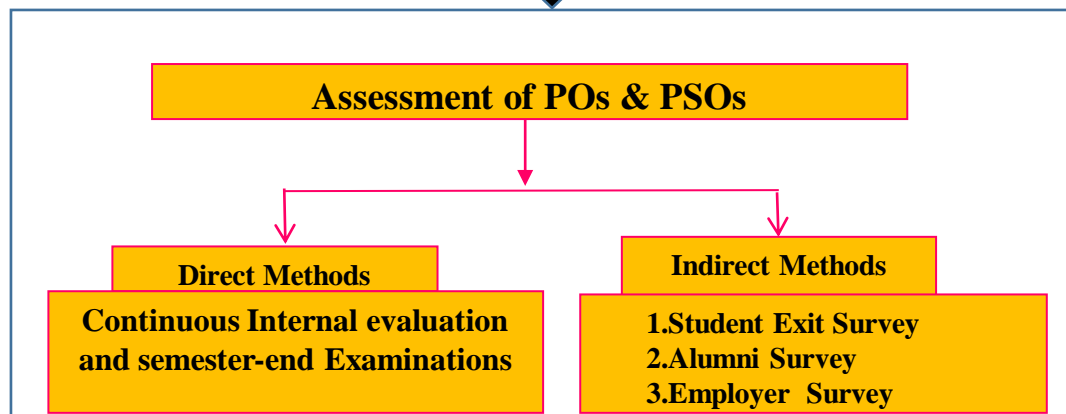
Faculty Course Assessment Report

PROCESS OF ASSESSMENT (POs AND PSOs)

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES ASSESSMENT:

COs	CO attainment %	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
CO1	93.32	3.00	2.80	2.00	1.87	3.00	2.80	2.00	1.87	2.00	1.87	1.00	0.93	1.00	0.93	1.00	0.93	1.00	0.93	1.00	0.93	3.00	2.80	3.00	2.80	3.00	2.80	3.00	2.80	2.00	1.87
CO2	93.00	3.00	2.79	2.00	1.86	2.00	1.86	1.00	0.93	2.00	1.86	1.00	0.93	1.00	0.93			1.00	0.93			3.00	2.79	2.00	1.86	2.00	1.86	3.00	2.79	2.00	1.86
CO3	86.71	3.00	2.60	3.00	2.60	2.00	1.73	1.00	0.87	2.00	1.73	1.00	0.87	1.00	0.87			1.00	0.87			3.00	2.60	3.00	2.60	3.00	2.60	3.00	2.60	2.00	1.73
CO4	88.70	3.00	2.66	2.00	1.77	2.00	1.77	1.00	0.89	2.00	1.77	1.00	0.89	1.00	0.89			1.00	0.89			3.00	2.66	2.00	1.77	2.00	1.77	2.00	1.77	2.00	1.77
Total		12.00	10.85	9.00	8.10	9.00	8.17	5.00	4.55	8.00	7.23	4.00	3.62	4.00	3.62	1.00	0.93	4.00	3.62	1.00	0.93	12.00	10.85	10.00	9.03	10.00	9.03	11.00	9.96	8.00	7.23
Attainment %			90.43		90.02		90.75		91.01		90.43		90.43		90.43		93.32		90.43		93.32		90.43		90.35		90.35		90.59		90.43
Average Attainment Level		3.00	2.71	2.25	2.03	2.25	2.04	1.25	1.14	2.00	1.00	1.00	0.90	1.00	0.90	0.25	0.23	1.00	0.90	0.25	0.23	3.00	2.71	2.50	2.26	2.50	2.26	2.75	2.49	2.00	1.81

ASSESSMENT



$$PO \text{ Attainment} = \frac{\sum(\text{CO attainment} * \text{PO weightage mapped})}{\sum \text{POs weightage mapped}}$$

COs/POs/PSOs attainment %		Correlation Level
≥ 58	:	3
≥ 48 to < 58	:	2
< 48	:	1

ASSESSMENT TOOLS

Direct Assessment Tools:

- Measuring CO attainment through Continuous Internal Examinations (CIE)
- Measuring Course Outcomes attained through Semester End Examinations (SEE)

Course	Evaluation	Tools followed
Theory	Internal External	CIE and SEE
Laboratory	Internal External	Rubrics1
Seminar	Internal	Rubric-2
Project Work	Internal External	Rubric-3

IN-DIRECT ASSESSMENT TOOLS

1. Surveys

- Student Exit Survey
- Alumni Survey
- Employer Survey
- Parent Survey

2. Co-curricular Activities

- Participation in Technical Association activities
- Participation in Professional Bodies activities

3. Extra-curricular Activities

- Participation in Sports events
- Participation in NSS events
- Participation in Cultural events

POs ASSESSMENT PROCEDURE

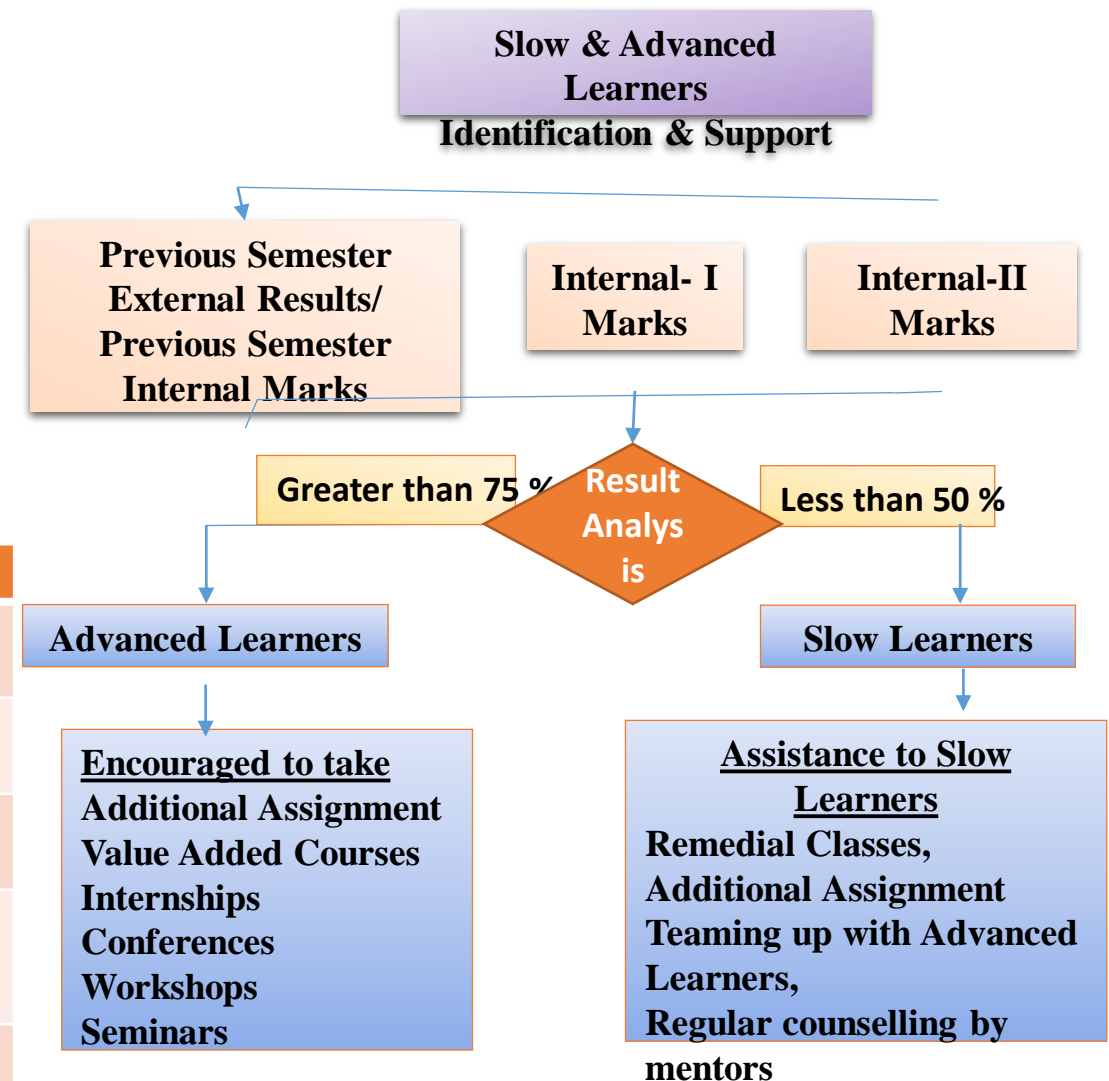
Assessment Tool technical	Frequency	Responsibility	Scrutinized by
Direct Assessment			
Mid examination	Twice in the semester	<ul style="list-style-type: none"> Course Instructor Module Coordinator Departmental Advisory Board (DAB) 	Program Assessment Committee(PAC)
End / Semester-end examination	End of the Semester		
Laboratory Internal Examination	Two tests per Semester		
Laboratory External Examination	End of the Semester		
Technical Seminar	Presentation in IV Year I Semester		
Project Work	End of the IV Year II Semester		
Comprehensive viva-voce	Conducted during IV Year I Semester		
Indirect Assessment			
Student Exit Survey	Every year	Programme Coordinator	Program Assessment Committee(PAC)
Alumni Survey			
Employer Survey			
Co-curricular activities & Extracurricular activities	Twice in the week		

TLP includes

1. University calendar
2. Department Academic calendar,
3. Lesson Plan
4. Detailed Lecture Notes
5. Assignments
6. Interaction using Teaching Aids
7. Tutorial Classes
8. Previous Question Papers
9. GL's & Workshops
10. Industrial Visits
11. Student Projects
12. Continuous Evaluation in the Laboratories
13. Continuous Assessment (Results)

Teaching Methods		ICT based Methods	
Chalk and Talk	Mini projects/case studies	Power point Presentations	Project based learning
Charts/Models	Student Seminars	Flipped classes	Quizzes online
Field Visits	Think-pair-share	Certifications/MO OCs	Review web literature
Group Discussions	Workshops	Google classroom	Software based learning
Group Tasks/Assignments	Guest Talks	Models Development	Video lectures

Process for Identification of Slow & Advanced Learners



POs ATTAINMENT (CIE & SEE)- SAMPLE

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.51		1.35						0.88		1.09		1.98		
CO2		1.31			0.70			0.63							1.35
CO3						0.66						0.79			
CO4				0.90			0.44			0.53				1.53	
Average PO Attainment	1.51	1.31	1.35	0.90	0.70	0.66	0.44	0.63	0.88	0.53	1.09	0.79	1.98	1.53	1.35
Target for Attainment (%)	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Outcomes Satisfied?	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Level	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

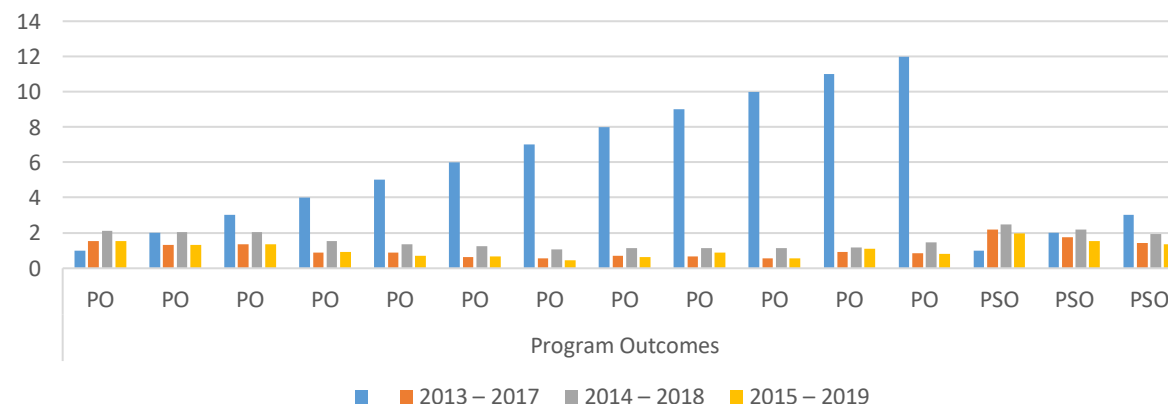
COs	CO attainment %	PO1	PO2	PO3	PO4	PO5	PO6	PO7
		Attained	Attained	Attained	Attained	Attained	Attained	Attained
CO1	93.32	2.80	1.87	2.80	1.87	1.87	0.93	0.93
CO2	93.00	2.79	1.86	1.86	0.93	1.86	0.93	0.93
CO3	86.71	2.60	2.60	1.73	0.87	1.73	0.87	0.87
CO4	88.70	2.66	1.77	1.77	0.89	1.77	0.89	0.89
Total		10.85	8.10	8.17	4.55	7.23	3.62	3.62
Attainment %		90.43	90.02	90.75	91.01	90.43	90.43	90.43
Attained Level		3	3	3	3	3	3	3
Average Attainment Level		2.71	2.03	2.04	1.14	1.00	0.90	0.90

$$PO \text{ Attainment} = \frac{\sum (CO \text{ Attainment} * PO \text{ weightage})}{\sum PO \text{ weightages}}$$

OERALL POs ATTAINMENTS FOR LAST THREE ACADEMIC YEARS

S No	Assessment Components (Direct and Indirect)	Program Outcomes														
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	2013 – 2017	1.53	1.3	1.33	0.89	0.86	0.63	0.56	0.7	0.66	0.55	0.9	0.84	2.18	1.73	1.42
2	2014 – 2018	2.11	2.03	2.03	1.51	1.34	1.23	1.06	1.12	1.13	1.12	1.17	1.47	2.46	2.18	1.94
3	2015 – 2019	1.51	1.31	1.35	0.9	0.7	0.66	0.44	0.63	0.88	0.53	1.09	0.79	1.98	1.53	1.35

Overall POs Attainment



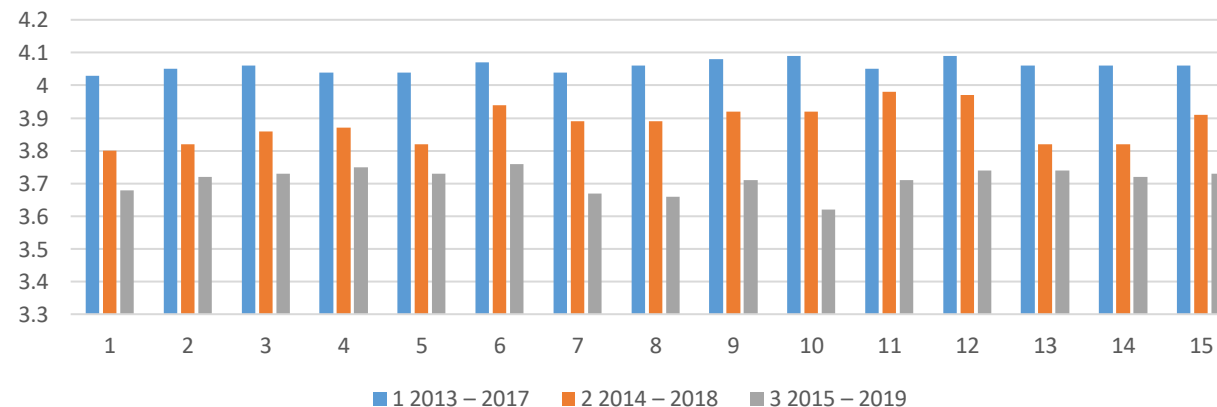
INDIRECT POs and PSOs ATTAINMENTS FOR LAST THREE ACADEMIC YEARS

2013 - 2017	S.No	Parameters	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO ₂	PSO3
	1	Allumni	4.00	4.03	4.06	4.01	4.03	4.05	4.03	4.03	4.10	4.07	4.03	4.06	4.03	4.03	4.03
	2	Graduate Exit Survey	4.07	4.07	4.07	4.07	4.05	4.10	4.05	4.10	4.05	4.11	4.07	4.11	4.10	4.10	4.10
		Average	4.03	4.05	4.06	4.04	4.04	4.07	4.04	4.06	4.08	4.09	4.05	4.09	4.06	4.06	4.06
2014 - 2018	S.No	Parameters	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	1	Allumni	3.66	3.71	3.79	3.81	3.71	3.94	3.85	3.85	3.91	3.90	4.03	4.01	3.71	3.71	3.89
	2	Graduate Exit Survey	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
		Average	3.80	3.82	3.86	3.87	3.82	3.94	3.89	3.89	3.92	3.92	3.98	3.97	3.82	3.82	3.91
2015 - 2019	S.No	Parameters	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO ₂	PSO3
	1	Allumni	3.53	3.61	3.63	3.67	3.61	3.69	3.50	3.50	3.58	3.44	3.58	3.67	3.67	3.61	3.65
	2	Graduate Exit Survey	3.83	3.83	3.83	3.83	3.84	3.82	3.84	3.82	3.84	3.80	3.83	3.80	3.82	3.82	3.82
		Average	3.68	3.72	3.73	3.75	3.73	3.76	3.67	3.66	3.71	3.62	3.71	3.74	3.74	3.72	3.73

OVERALL INDIRECT POs and PSOs ATTAINMENTS FOR LAST THREE ACADEMIC YEARS

S No	Assessment Components (Indirect)	Program Outcomes														
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	2013 – 2017	4.03	4.05	4.06	4.04	4.04	4.07	4.04	4.06	4.08	4.09	4.05	4.09	4.06	4.06	4.06
2	2014 – 2018	3.80	3.82	3.86	3.87	3.82	3.94	3.89	3.89	3.92	3.92	3.98	3.97	3.82	3.82	3.91
3	2015 – 2019	3.68	3.72	3.73	3.75	3.73	3.76	3.67	3.66	3.71	3.62	3.71	3.74	3.74	3.72	3.73

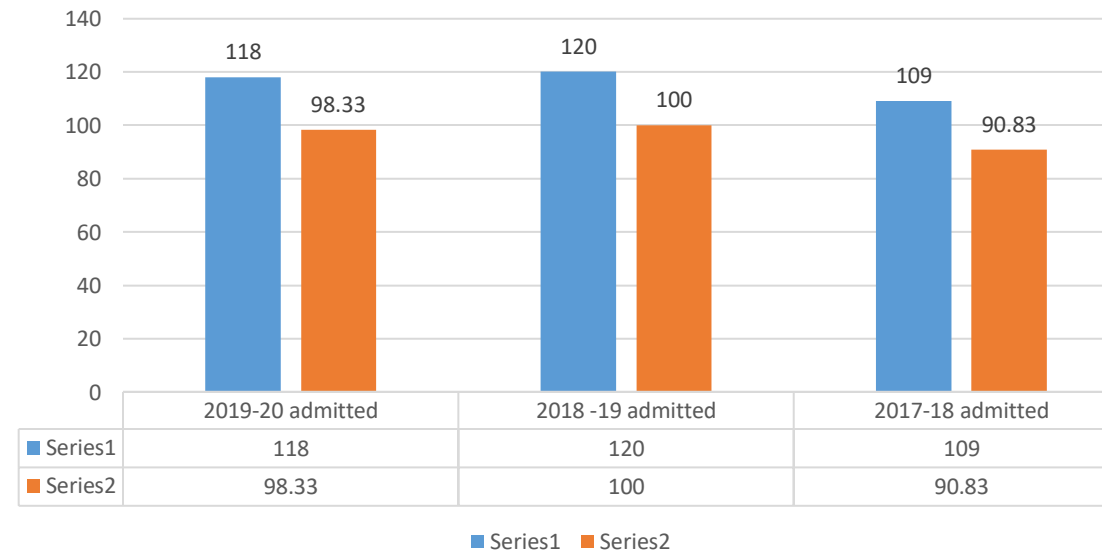
Indirect Assessment



ENROLLMENT RATIO

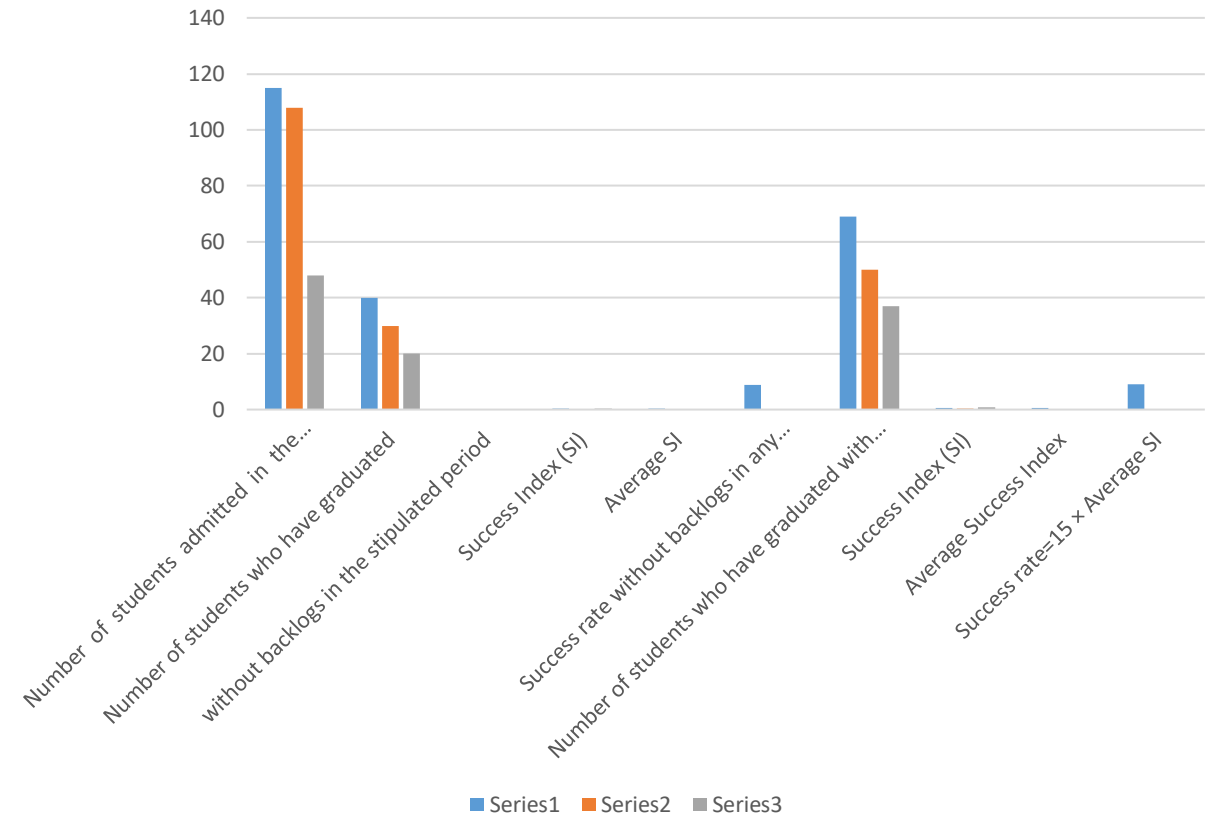
Item	2019-20 admitted	2018 -19 admitted	2017-18 admitted
(Students enrolled at the first Year level on average basis during the period of assessment):N1/N	118/120	120/120	109/120
%	98.33	100	90.83

Student Enrolment Ratio



Item	2015 -16	2014 -15	2013 -14
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if applicable	115	108	48
Number of students who have graduated without backlogs in the stipulated period	40	30	20
Success Index (SI)	0.35	0.28	0.42
Average SI	0.35		
<i>Success rate without backlogs in any semester/year of study = $25 \times \text{Average SI}$</i>	08.75		
Number of students who have graduated with backlogs in the stipulated period	69	50	37
Success Index (SI)	0.60	0.46	0.77
Average Success Index	0.61		
<i>Success rate = $15 \times \text{Average SI}$</i>	09.15		

SUCCESS RATE



SUCCESS RATE

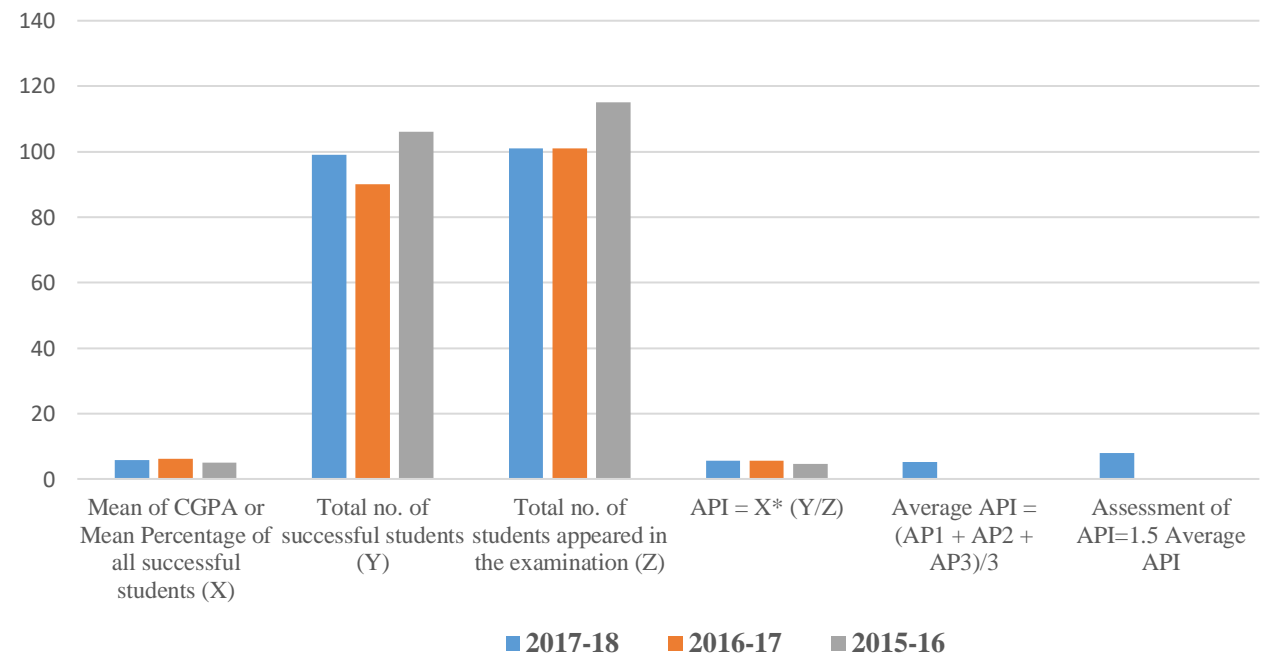
Year of Entry		I Year	II Year	III Year	IV Year
2019-2020	117				
2018-2019	130	119			
2017-2018	110	100	99		
2016-2017	109	99	90	90	
2015-2016	115	114	106	101	69
2014-2015	108	103	89	86	50
2013-2014	48	43	38	38	37

	LYG (2015-16)	LYG minus 1(2014-15)	LYG minus21(2013-14)
No of Students Admitted Year Wise	115	108	48
No of Students Graduated without Backlogs Year Wise	69	50	37
Success Index	0.60	0.46	0.77

ACADEMIC PERFORMANCE IN SECOND YEAR

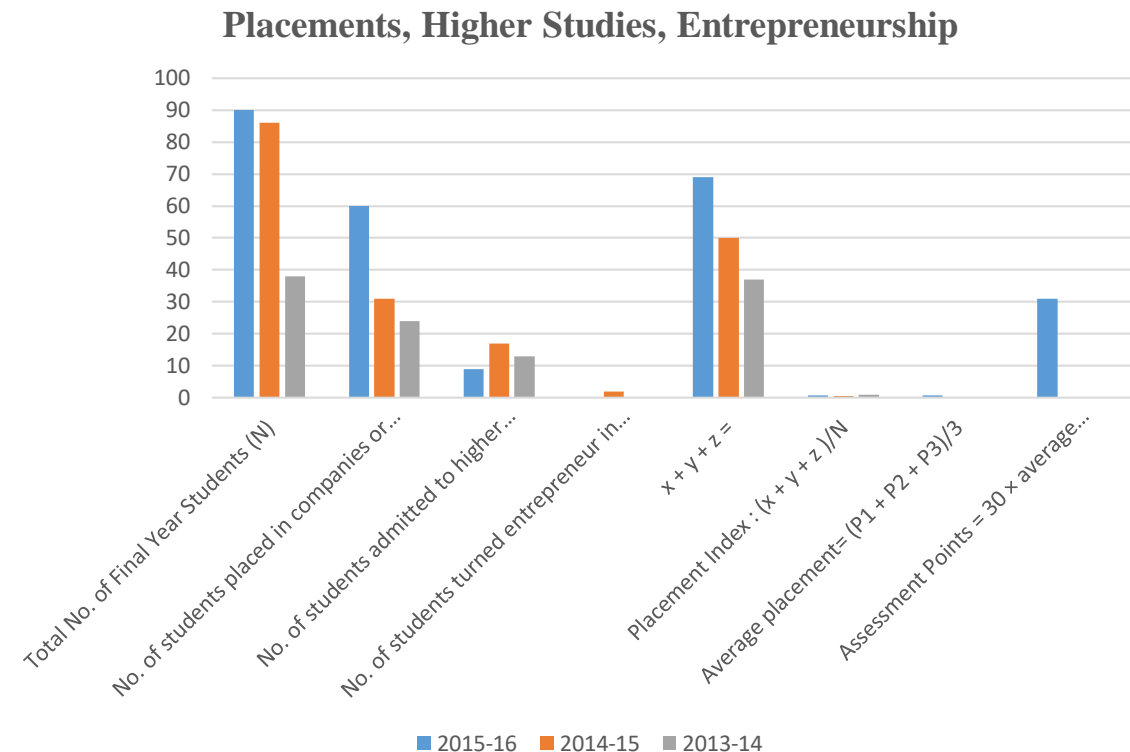
Academic Performance	2017 -18	2016 -17	2015 -16
Mean of CGPA or Mean Percentage of all successful students (X)	5.80	6.20	5.11
Total no. of successful students (Y)	99.00	90.00	106.00
Total no. of students appeared in the examination (Z)	101.00	101.00	115.00
$API = X * (Y/Z)$	5.69	5.52	4.71
Average API = $(AP1 + AP2 + AP3)/3$	5.31		
Assessment of API=1.5 Average API	7.96		

Academic Performance in Second Year



PLACEMENT, HIGHER STUDIES & ENTREPRENEURSHIP

Item	2015-16	2014-15	2013-14
Total No. of Final Year Students (N)	90.00	86.00	38.00
No. of students placed in companies or Government Sector (x)	60.00	31.00	24.00
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	9.00	17.00	13.00
No. of students turned entrepreneur in engineering/technology (z)	0.00	2.00	0.00
$x + y + z =$	69.00	50.00	37.00
Placement Index : $(x + y + z) / N$	0.77	0.58	0.97
Average placement = $(P1 + P2 + P3) / 3$	0.77		
Assessment Points = $30 \times$ average placement	30.93		



PROFESSIONAL SOCIETIES/CHAPTERS & EVENTS

S. No	Title Of Workshop	Date	Organization	Target Audience
1	Orientation Program	02-02-2019	IEEE	II & III CSE
2	Poster Presentation	30-03-2019	IEEE	IEEE
		02-02-2019		Registered CSE Students

Under CSI Year wise Count		
Academic Year	Workshops	Guest Lectures
2019-20	3	2
2018-19	15	2
2017-18	3	0

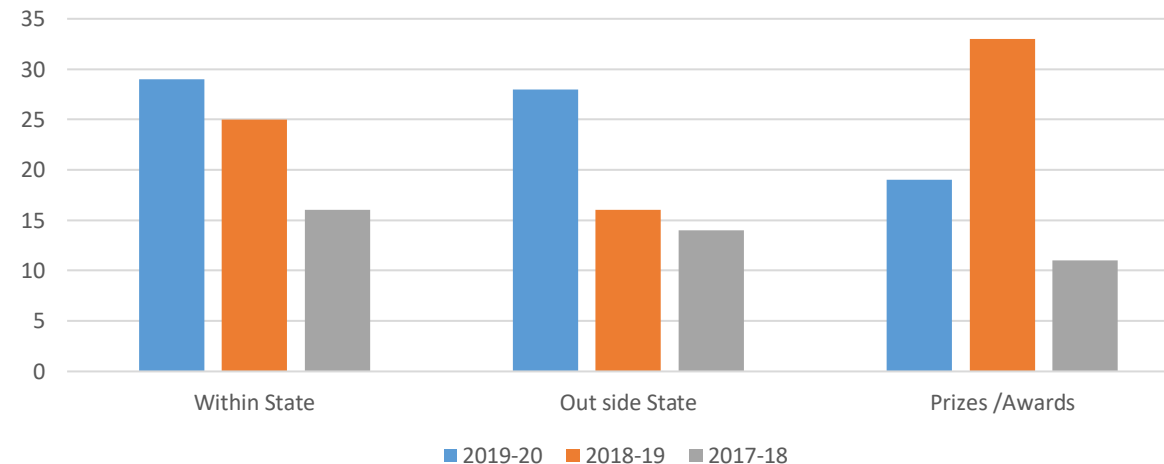
TECHNICAL MAGAZINE NEWS LETTERS

Sl. No	Year	Name of the Publication of Technical Magazines/Newsletters	Month of publication
1	2020	CSE E-NEWS LETTER Volume –8	JANUARY
2	2019	CSE E-NEWS LETTER Volume –7	JULY
3	2019	CSE E-NEWS LETTER Volume – 6	JANUARY
4	2018	CSE E-NEWS LETTER Volume – 5	JULY
5	2018	CSE E-NEWS LETTER Volume – 4	JANUARY
6	2017	CSE E-NEWS LETTER Volume –3	JULY
7	2017	CSE E-NEWS LETTER Volume –2	JANUARY
8	2016	CSE E-NEWS LETTER Volume –1	JULY

Students participation in technical events & prizes won/Publications

STUDENT PARTICIPATION			
	Within State	Out side State	Prizes /Awards
2019-20	29	28	19
2018-19	25	16	33
2017-18	16	14	11

Student Participation



STUDENT-FACULTY RATIO (SFR)

Year of study	CAY		CAYm1		CAYm2	
	2019-20		2018-19		2017-18	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd year	120	12	120	01	120	02
3rd year	120	01	120	02	120	01
4th year	120	02	120	01	120	01
Sub-total	360	15	360	04	360	04
Total	375		364		364	
No. of faculty in the department.	24		20		25	
Students Faculty ratio	15.63		18.2		14.56	
Average SFR	16.13					

FACULTY CADRE PROPORTION

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2019-20)	2	2	4	3	12	19
CAYm1(2018-19)	2	1	4	1	12	18
CAYm2 (2017-18)	2	0	4	1	12	24
Average Numbers	RF1= 02	AF1= 1	RF2= 04	AF2= 1.67	RF3=12	AF3=20.33
Cadre Ratio Marks = 18.00(Limited to 20)						

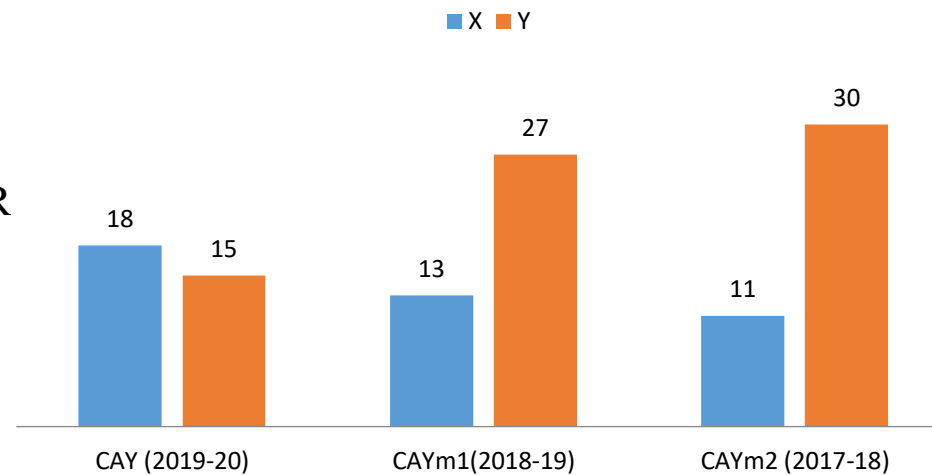
	X	Y	F	$FQ = 2.0 \times [(10X + 4Y)/F]$
CAY (2019-20)	5	19	18.00	17.50
CAYm1(2018-19)	2	18	18.00	12.78
CAYm2 (2017-18)	1	24	18.00	14.72
Average Assessment				15.00

Faculty Qualification

X= No. of regular faculty with Ph.D

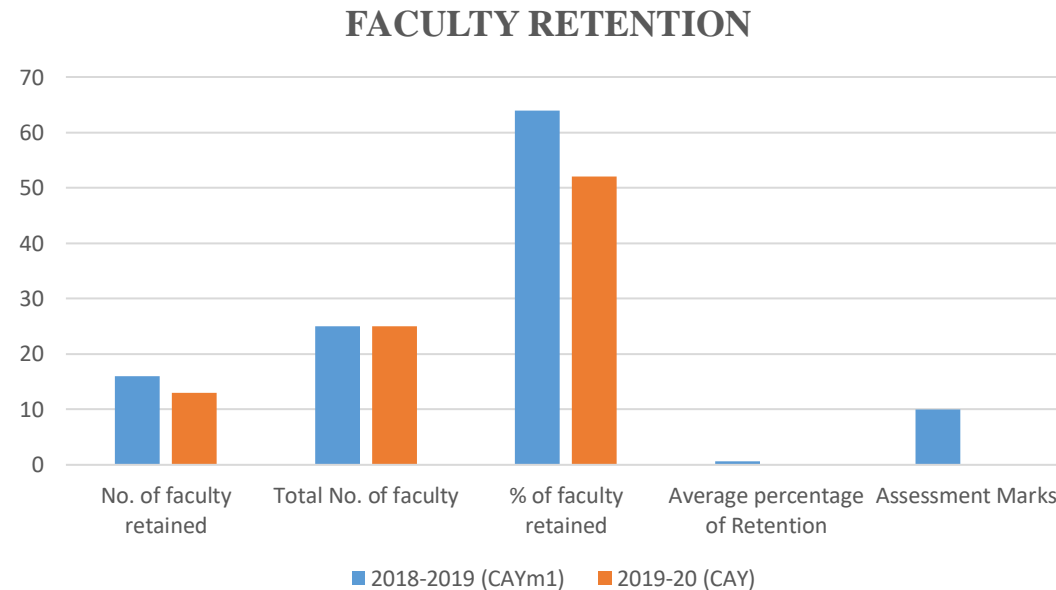
Y= No. of regular faculty with M.Tech

F= No. of regular faculty reqd to comply 1:20 FSR



FACULTY RETENTION

Description	2018-2019 (CAYm1)	2019-20 (CAY)
No. of faculty retained	16	13
Total No. of faculty	25	25
% of faculty retained	64	52
Average percentage of Retention	58.00%	
Assessment Marks	10.00	



FACULTY COMPETENCIES, INNOVATIONS & PARTICIPATION

Program Specific Criteria:

- ❖ Faculty Competencies
- ❖ Innovations in Teaching-Learning
- ❖ Faculty FDP/ Workshops Attended

Research and Development:

- ❖ Publications in Journals and conferences
- ❖ Book Chapters
- ❖ Ph.D. awarded
- ❖ Sponsored Research
- ❖ Ph.D. Guiding
- ❖ Product development
- ❖ Teaching Aids and working models

FACULTY COMPETENCIES, INNOVATIONS & PARTICIPATION

S. No	Academic Year	No of Activities
1	2019-20	116
2	2018-19	129
3	2017-18	34

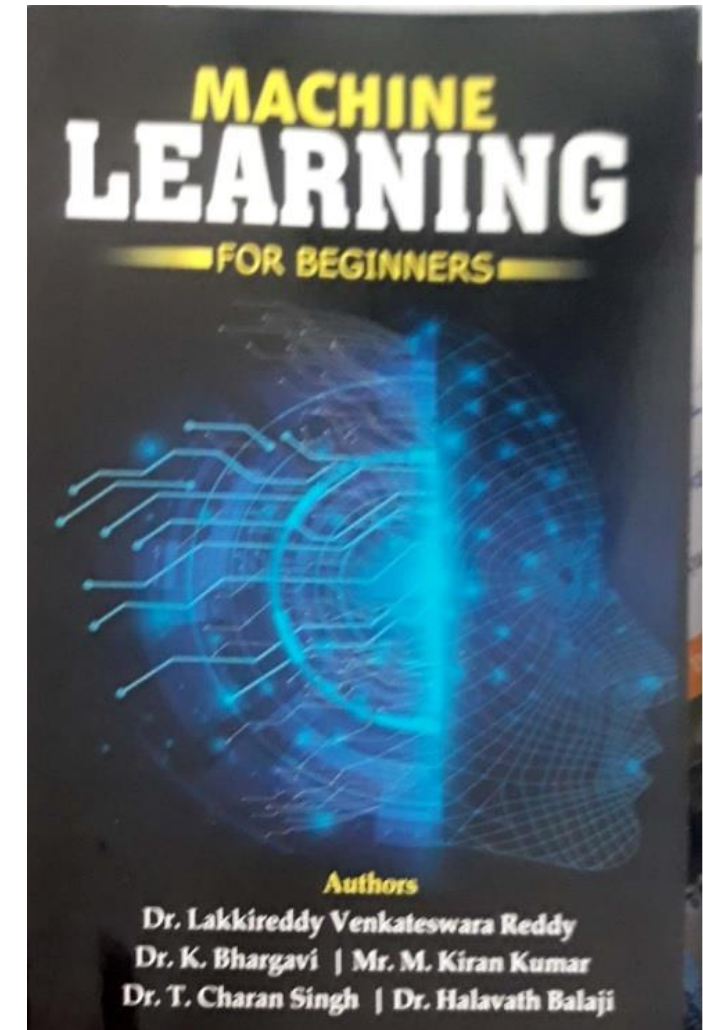


Collaborative Learning

BOOK CHAPTERS

Name of the Faculty	Title
Ms Prisilla Jayanthia	1. Cryptography in the health care sector with modernized cyber security(Book Chapter)
	2. Crude Birth Rate and Crude Mortality Rate in India: AC case of Application of Regression in Healthcare(Book Chapter)
	3. Disease Diagnosis and Treatment Using Deep Learning Algorithms for Healthcare System(Book Chapter)

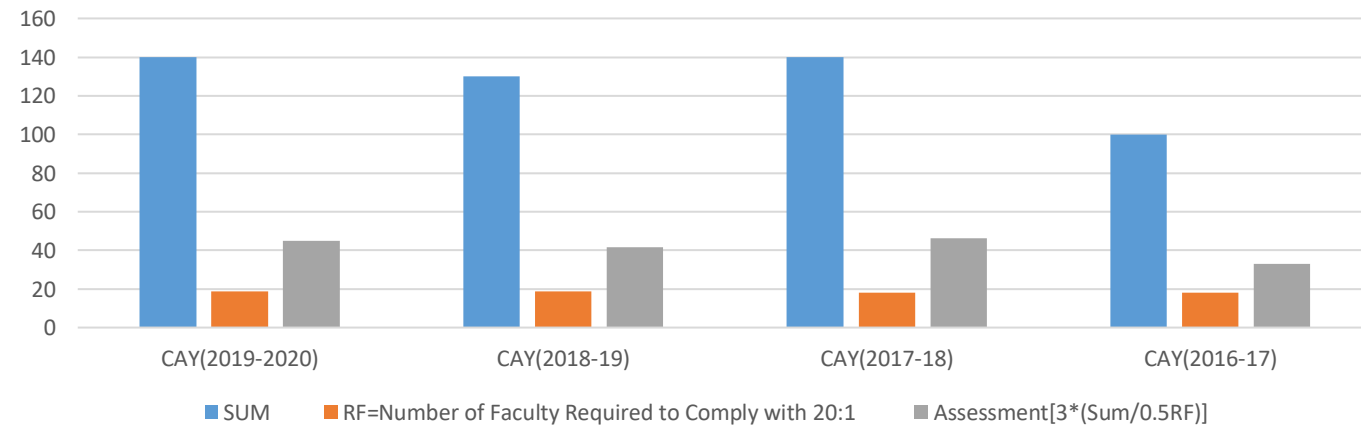
TEXT BOOKS



FDP PROGRAMS ATTENDED BY FACULTY

Year	SUM	RF=Number of Faculty Required to Comply with 20:1	Assessment [3*(Sum/0.5RF)]
CAY(2019-20)	140	18.70	44.91
CAY(2018-19)	130	18.75	41.60
CAY(2017-18)	140	18.20	46.15
CAY(2016-17)	100	18.20	32.97

FDP PROGRAMD ATTEMDED BY FACULTY



PROMOTION OF RESEARCH

Year	Number of Publications
CAY(2020-2021)	6
CAY(2019-20)	13
CAY(2018-17)	54
CAY(2017-18)	35

Name of the faculty member	Developed Research Laboratory
Dr. Hemanta Kumar Bhuyan	R &D and Project incubation center
Dr. J. Srinivas, Ms. Maadugundu Jyothi	IOT Maker Space lab
Dr. Siva Shankar S, Mr. Raghu kumar Lingamallu	Block chain Lab

***14 Patents Applied and published**

PAPER PUBLICATIONS (2020-21)

S. No	Name of the Faculty	Title	Name of the Journal / Conference
1	Dr. H. S. Wankhede	Co-relation Analysis between Cognitive process and Knowledge dimension in Software Engineering by Using Revised Bloom's Taxonomy	12 th International Conference on Intelligent Human Computer Interaction(IHCI-2020) (Scopus)
2	Ms. Himasagarika Rayapudi	Responding to COVID-19 and Transitioning to Online Learning: Evaluation of an Institution wide Capacity Building Efforts on Technology-Enhanced Learning	Journal of Engineering Education Transformations (Scopus)
3	Ms. Himasagarika Rayapudi	Role of Learning Analytics to Evaluate Formative Assessments: Using a data driven approach to inform changes in teaching practices	Journal of Engineering Education Transformations (Scopus)
4	Dr. Harikrishna Bommala	Implementation of Algorithms for Providing Security and Privacy In Cloud Based Services	International- LAP Lambert Academic Publishing (BOOK)
5	Dr. Harikrishna Bommala	Cloud Computing Technology For Digital Economy	i-manager's Journal on Cloud Computing (Free Publication - UGC)
6	Sowjanya Ramisetty	Mobile Energy Aware Cluster Based Multi-Hop Using Hybrid Warm Based Routing Protocol For Hierarchical Heterogeneous WSNS	European Journal of Molecular & Clinical Medicine (Scopus)

PAPER PUBLICATIONS (2020-21)

A. Year	Name	Title	Funding Agency	Cost
2020-21	Dr. Harikrishna Bommala	Development of Cost Effective Technology in Waste Management by IoT Based Monitoring System	DST	Rs 11,66,542
	Dr. Harikrishna Bommala	Detect and Improvement of Underground Water Leakage Monitoring in Urban Area	DST	Rs 14,63,484
2019-20	Dr. Hemanta Kumar Bhuyan (PI) Dr. Siva Shankar Subrananian (Co-PI)	Study and Analysis of human activities through IOT using electro – computing technology for socio-balanced environment	SERB SUPRA	Rs 25,30,000
	Dr. Siva Shankar Subrananian (PI) Dr. Hemanta Kumar Bhuyan (Co-PI)	Designing of sustainable and secure wireless sensor network tool	SERB SUPRA	Rs 25,08,000

SPONSORED RESEARCH

SCIENCE AND ENGINEERING RESEARCH BOARD (SERB)								
SCIENTIFIC AND USEFUL PROFOUND RESEARCH ADVANCEMENT (SUPRA)								
S. No.	Name of Principal Investigator	Title	Broad Area	Scheme Name	Submission Date	Duration	Cost of Project Applied (Rs.)	Status
1	Dr. Hemant Kumar Bhuyan	Study and analysis of human activities through IOT using electro-computing technology for socio-balanced environment	Engineering Sciences	SUPRA	8/11/2019	36 months	25, 30, 000 /-	Not Sanctioned
2	Dr. Siva Shankar Subramanian	Designing of sustainable and secure wireless sensor network tool	Engineering Sciences	SUPRA	20/11/2019	36 months	25, 08, 000 /-	Not Sanctioned

FACULTY PERFORMANCE APPRAISAL

- ❖ The performance of each faculty is evaluated **every year** through a comprehensive self-appraisal system.
- ❖ The **parameters** in the system are:
 - ❖ Teaching, Learning and Evaluation, Research Contributions, Administrative Assignments, Professional Up-gradation, Student development activities, Personality attributes.
- ❖ Different Parameters: Assistant Professor., Associate Professor. & Professor.
- ❖ HOD **reviews** and Forwarding to the Principal.
- ❖ The **Principal** constitutes a committee of **three** Senior teachers for validation of data submitted.
- ❖ The faculty scoring less than the **threshold score** are **counseled** for improvement and recommended to attend the development programs.

FACULTY PERFORMANCE APPRAISAL

KG REDDY
College of Engineering
& Technology
(Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad)
Chilukur (Village), Moinabad (Mandal), R. R. Dist, TS-501504

Accredited by NAAC
Date: 18/10/2019

ACTION TAKEN REPORT ON STUDENT FEEDBACK-1

Name of the faculty : M JYOTHI
Name of the subject : INTERNET OF THINGS
Year/Sem/Section : IV/I/B
Department : COMPUTER SCIENCE AND ENGINEERING

Learning	Enthusiasm	Organi- zation	Group Interacti- on	Individ- ual Rappor	Extensiven- ess	Examinati- ons	Assignme- nts	Over all	Avera- ge	Gradi- ng
3.19	3.24	3.24	3.12	3.11	3.14	3.18	3.15	3.06	3.16	C

Grade	A++	A+	A	B+	B	C+	C
Grade Points	4.51	4.26	4.01	3.76	3.51	3.26	3.01
Grade Point Range	>4.51	≥ 4.26 & < 4.51	≥ 4.01 & < 4.26	≥ 3.76 & < 4.01	≥ 3.51 & < 3.76	≥ 3.26 & < 3.51	≥ 3.01 & < 3.26

* Minimum Eligibility Criteria is average of Learning, Enthusiasm, Organization should be 3.26

Note: The obtained score is on the scale of 1 to 5

1. Based on the feedback faculty is below the cutoff.
2. The faculty is suggested to improve in all the sections as mentioned above by making the students involved in group discussion, active learning methods.
3. You are informed to use ICT tools and innovative teaching methods to improve the teaching-learning process.
4. You have to take extra effort to improve your performance.
5. You are informed to submit the action plan to improve your performance in the next feedback.

ALL THE BEST

HEAD
HOD
Department of Computer Science and Engineering
KG Reddy College of Engineering & Technology,
Chilukur (V) Moinabad (M),
R. R. Dist

PRINCIPAL
Principal
KG Reddy College of Engineering & Technology,
Chilukur (V) Moinabad (M),
R. R. Dist

FACULTY PERFORMANCE APPRAISAL

Faculty Appraisal Form

Faculty Appraisal Form		
Faculty Name:	Department:	Position:
Appraisal Start Date:	Appraisal End Date:	Date Conducted:

A. Teaching (100 marks)			Max	Secured = Max.Wtg	Evidence
1. Teaching Effectiveness - Calculated based on adherences to academic calendar and student's performance			25		
Excellent	Average	Poor			
2. Innovations in Teaching & Learning – Implementation of active learning pedagogies to enhance students' learning			15		
Beyond	Expected	Below			
3. Student feedback collected at the end of the semester			10		
Excellent	Average	Poor			
4. Improvement in teaching practices based on mid-semester feedback collected from the students.			10		
Effective	Moderate	Poor			
5. Student mentoring: Effectiveness of mentoring students to monitor their progress and help them to succeed in the program			15		
Effective	Moderate	Poor			
6. Participation in teaching workshop/seminar to improve teaching through the 'Center for Engineering Education Development'.			10		
Beyond	Expected	Below			
7. Strategies adopted to support slow and advanced learners.			15		
Beyond	Expected	Below			
Total A					

Minimum Eligible Criteria: 60 % score

FACILITIES & TECHNICAL SUPPORT

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Java Lab	20	Computer Systems with required softwares and 10 additional systems	9 hours	N Ravi	Lab Assistant	Diploma, CSE
2	Information Technology Workshop	20	Hardware: Computers, Servers, UPS, Projector. Software: Ms Office, latex	9 hours	R. Dayakar	Lab Assistant	B.com
3	Operating System Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	N Ravi	Lab Assistant	Diploma CSE
4	Web Technology Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	N Ravi	Lab Assistant	Diploma CSE
5	Database Management System Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	R. Dayakar	Lab Assistant	B.com
6	Design and Analysis of Algorithm Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	R. Dayakar	Lab Assistant	B.com
7	Data Structure Lab	20	Computer Systems with required softwaresand10 additional System	9 hours	R. Dayakar	Lab Assistant	B.com
8	C++ programming lab	20	Computer Systems with required softwaresand10 additional Systems	9 hours	R. Dayakar	Lab Assistant	B.com
9	Software Engineering Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	P.Ramesh	Lab Assistant	MBA
10	Computer Networks Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	P.Ramesh	Lab Assistant	MBA
11	Data Warehousing and Data Mining Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	P.Veeresh	Lab Assistant	B Tech, CSE
12	Python Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	P.Veeresh	Lab Assistant	B Tech, CSE
13	Internet of Things (IoT) Lab	20	Computer Systems with required Equipment's (Raspberry-pi,Sensors, and connecting wires)	9 hours	Praveen Kumar Reddy	Lab Assistant	Diploma,ECE
14	Linux programming Lab	20	Computer Systems with required softwaresand10 additional systems	9 hours	N Ravi	Lab Assistant	Diploma, CSE

FACILITIES & TECHNICAL SUPPORT

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Computer Peripheral Assembling Lab	Using Scrap/Unused Systems	To provide complete picture of hardware devices for better understanding of the subjects	18hours/Week	Live experience of disassembling, locating the devices, assembling the system.	PO1, PO4, PO7.
2	Common Internet Facility	Internet Speed up to 50 Mbps	Facility to staff and students for enhancing teaching and learning	Opened for utilization throughout the semester	Access to learning resources for content beyond syllabus.	PO1, PO3, PO4, PO5, PO12.
3	Project Laboratory	Computer (I3Processor 4GB RAM 500GB HDD)	To utilize for developing Mini- project, Project, Innovation and publication	Opened for utilization throughout the semester	Research activities, mini and major projects.	PO1, PO2, PO3, PO4, PO5, PO12.
4	Internet of Things Maker Space Lab	Monitors with keyboard, mouse, raspberry-pi, sensors and connecting wires	Development of IoT based projects	Opened for utilization throughout the semester	Cloud based application, Any application related to IOT, raspberry pi-based application.	PO1, PO2, PO3, PO4, PO5, PO12.
5	Campus Recruitment Training	Soft skills and Technical training.	For developing communication skills, technical skills and personality development	6 hours/Week	Students will benefit in placements	PO1, PO2, PO3, PO9, PO10

CONTINUOUS ASSESSMENT IN THE LABORATORY AND ACTION TAKEN REPORT

Lab day to day evaluation

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College of Engineering & Technology
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Chilukar (Village), Mainabud (Mandal), R. R. Dist, TS-501304

Accredited by NAAC

Department of Electronics and Communication Engineering
II B. Tech Semester: II
Day to Day lab evaluation

Academic Year: 2019-20

Name of the Lab: AC Lab (EC406ES)
Roll No.: 17QM1A0448

Name of the Student: U DIVYA

S.No.	Name of the Experiment	Date of Experiment	Record of previous experiment (5 marks)	Execution of experiment (5 marks)	Viva-Voce (5 marks)	Total (15 marks)	Remarks by Faculty
1	Amplitude modulation and demodulation	28-01-2019	5	4	5	14	Need to improve circuit design skills
2	DSB-SC Modulator & Detector	04-02-2019	5	4	5	14	
3	SSB-SC Modulator & Detector (Phase Shift Method)	21-01-2019	5	5	5	15	Circuit diagram drawn wrongly
4	Frequency modulation and demodulation	21-01-2019	5	5	5	15	
5	Study of spectrum analyzer and analysis of AM and FM Signals	11-03-2019	5	4	5	14	
6	Pre-emphasis & de-emphasis	11-02-2019	5	4	5	14	
7	Time Division Multiplexing & De-multiplexing	11-02-2019	5	4	5	14	Proper design and maintenance should be done
8	Frequency Division Multiplexing & De-multiplexing	11-03-2019	5	4	5	14	
9	Verification of Sampling Theorem	21-02-2019	5	5	5	15	Calculation and graphs not done properly
10	Pulse Amplitude Modulation & Demodulation	21-02-2019	5	5	5	15	
11	Pulse Width Modulation & Demodulation	21-02-2019	5	4	5	14	Recording of results should be clear
12	Pulse Position Modulation & Demodulation	21-02-2019	5	4	5	14	
Average						14	

Faculty Member
A.S.

U. Divya
Student

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Chilukar (Village), Mainabud (Mandal), R. R. Dist, TS-501304

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Department of Electronics and Communication Engineering

Date: 17/01/21

ACTION TAKEN REPORT ON STUDENT FEEDBACK-1

Name of the faculty : Mr. A VIJAYA BHASKER REDDY
Name of the subject : MPMC
Year/Sem/Section : III /A/A
Department : ECE

Learning	Enthusiasm	Organization	Group Interaction	Individual Rapport	Extensiveness	Examinations	Assignments	Overall	Average	Gra
4.22	4.26	4.28	4.28	4.27	4.28	4.28	4.30	4.21	4.26	A+

Comment by students:

Grade	A++	A+	A	B+	B	C+	C
Grade Points	4.51	4.26	4.01	3.76	3.51	3.26	3.01
Grade Point Range	>4.51	≥ 4.26 &< 4.51	≥ 4.01 &< 4.26	≥ 3.76 &< 4.01	≥ 3.51 &< 3.76	≥ 3.26 &< 3.51	≥ 3.01 &< 3.26

* Minimum Eligibility Criteria is average of Learning, Enthusiasm, Organization should be 3.26

Note: The obtained score is on the scale of 1 to 5

- The feedback received from the student is good, please continue the same rapport with the student.
- Conduct more examinations that improves the performance of the student in end examination.
- Ask the student to think beyond the concepts in the given subjects and build prototypes on different concepts as a project.
- Conduct the different activities for slow and advanced learners that helps the students.

ALL THE BEST

HOD
Reinard

PRINCIPAL
Principal
KG Reddy College of Engineering & Technology
Chilukar (Village), Mainabud (Mandal), R. R. Dist

HEAD
DEPT. OF ELECTRONICS & COMMUNICATIONS ENGINEERING
K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
CHILUKAR (V), MAINABUD, R.R. DIST-501304

Curriculum Improvements

- ❖ Pre-Semester Audit, Mid-Semester Audit, Post-Semester Audit

Students Performance

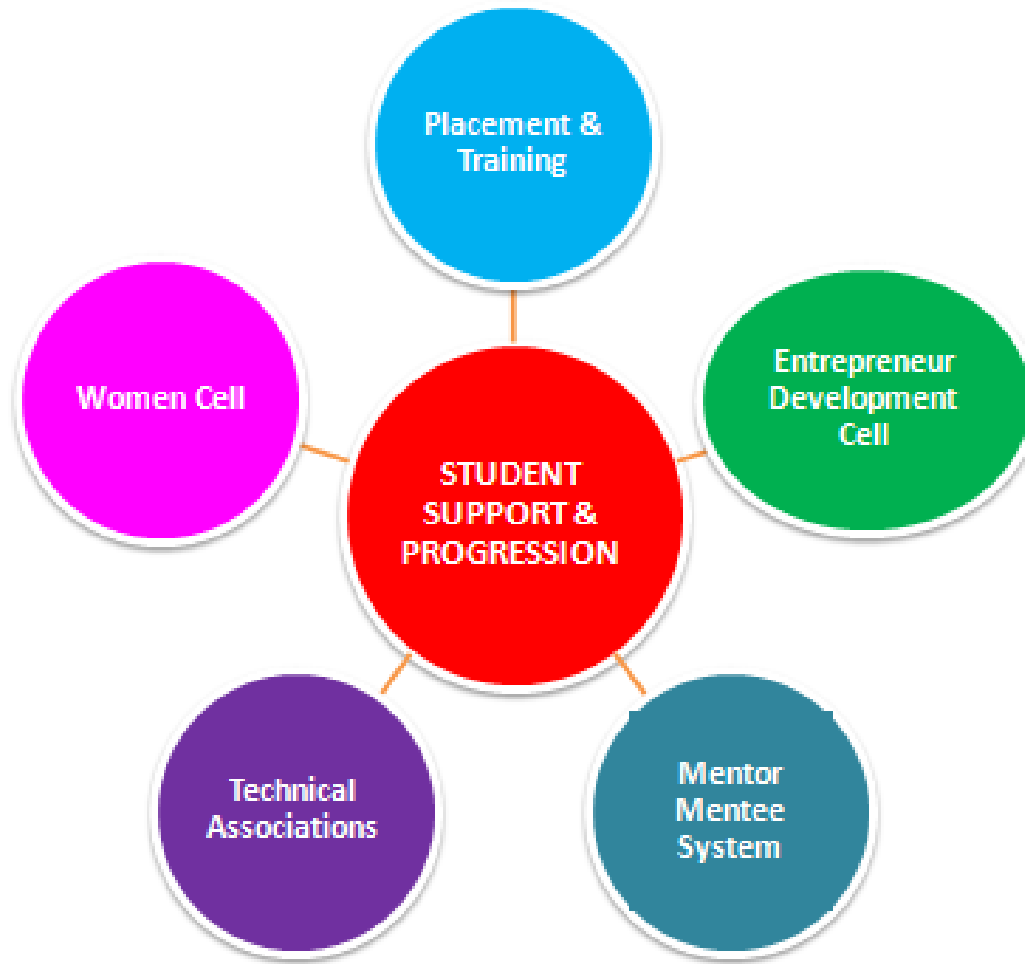
- ❖ Number of Placements
- ❖ Number of Internships
- ❖ Quality of Students Intake

Continuous Learning:

- ❖ Conducted - Number of Skill Development Programmes
- ❖ Conducted Outreach Programs

Faculty Performance

- ❖ Number of Publications
- ❖ Conducted - Number of FDPs/Seminars/Workshops
- ❖ Research Grant
- ❖ Consultancy Work
- ❖ Book Chapters
- ❖ Enhanced Research Facilities- Research Labs



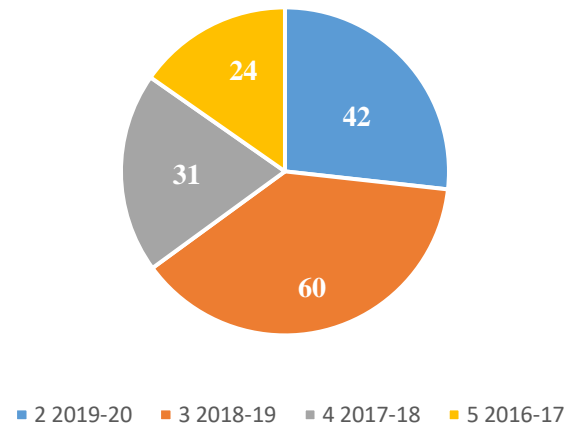
7.3 IMPROVEMENT IN PLACEMENTS, HIGHER STUDIES AND ENTREPRENEURSHIP

ITEM	2020-21	2019-20	2018-19	2017-18	2016-17
Total No. of Final Year Students(N)	110	98	90	86	38
No. of Students Placed in Companies or Government Sector (X)	40	42	60	31	24
No. of Students admitted to higher studies with valid qualifying scores (GATE or Equivalent State or National Level Tests, GRE, GMAT, etc.)(Y)	02	01	9	17	13
No. of students turned entrepreneur in engineering / technology(Z)	0	0	0	2	0
Placement Index: $(X+Y+Z)/N$	0.381	0.43	0.77	0.58	0.97
Average Placement Index:				0.68	
Assessment Point=10 X Average Placement Index:				6.8	

7.3 YEAR WISE PLACEMENTS

S. NO	Academic Year	Total No. of Placements
1	2020-21	42 (On going)
2	2019-20	42
3	2018-19	60
4	2017-18	31
5	2016-17	24

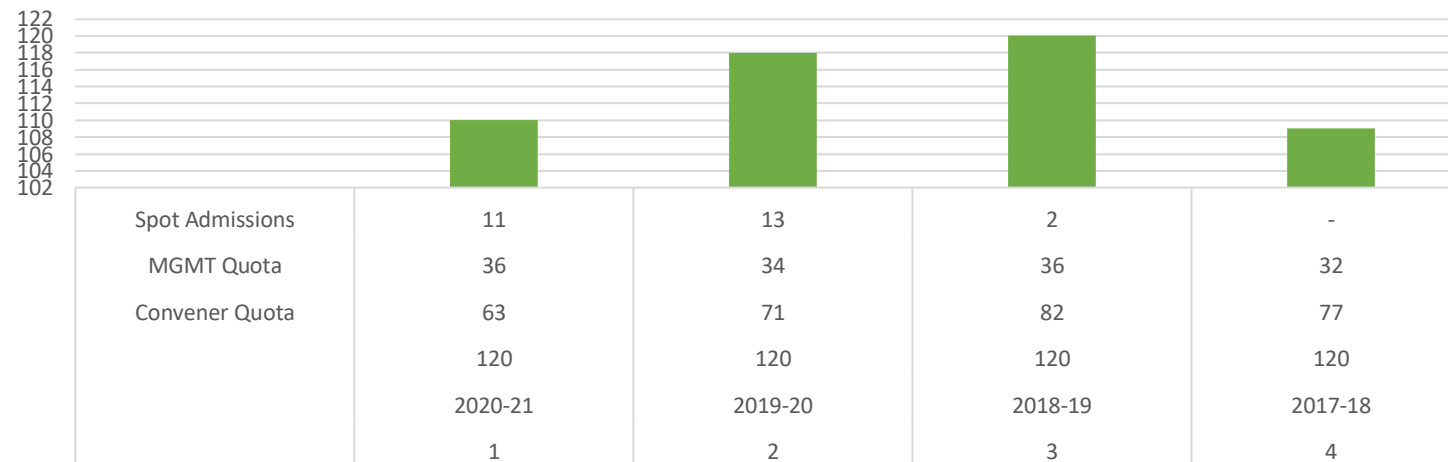
Yearwise Placement Details



7.4 IMPROVEMENT IN THE QUALITY OF STUDENTS ADMITTED TO THE PROGRAM

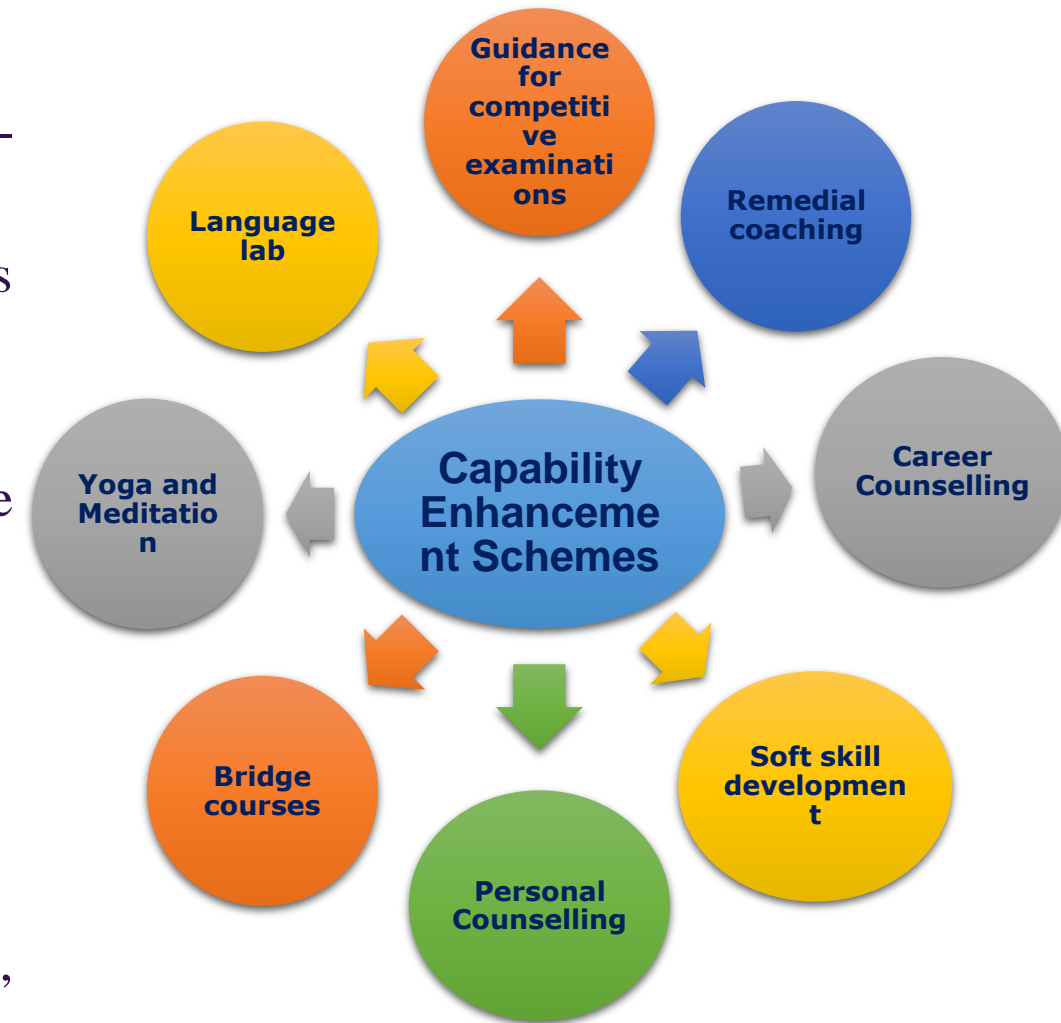
S.No	Academic Year	Approved Intake	B. Tech Regular Admissions			Total Admitted
			Convener Quota	MGMT Quota	Spot Admissions	
1	2020-21	120	63	36	11	110
2	2019-20	120	71	34	13	118
3	2018-19	120	82	36	2	120
4	2017-18	120	77	32	-	109

Total Admitted



BEST PRACTICES

- ✓ Organizing Research and Technical Talks.
- ✓ Curriculum enrichment through guest/expert lectures, add-on programs in the domain areas.
- ✓ Teachers are advised to develop skills among students through self learning in all the courses.
- ✓ e-learning resources to supplement the class room teaching.
- ✓ Add on Courses on advanced topics to enhance the employability.
- ✓ Faculty involvement in active research.
- ✓ More scope for students to learn beyond classroom.
- ✓ Access to resources beyond working hours.
- ✓ All Class Rooms equipped with LCD projector.
- ✓ MoUs' with industries for Student Internships, Training, and Placements.
- ✓ Quality publications are encouraged through incentives.



*Thank
you*

Faculty, Staff & Students

Department of Computer Science and Engineering

KG REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY