K.G. Reddy College of Engineering and Technology

Electronics & Communication Engg.

Part A : Institutional Information

1 Name and Address of the Institution

K.G. Reddy College of Engineering and Technology,
Chilkur (Village) Moinabad (Mandal) Ranga Reddy (District)

2 Name and Address of Affiliating University

Jawaharlal Nehru Technological University Hyderaba

3 Year of establishment of the Institution:

2008

4 Type of the Institution:

☐ University	☐ Autonomous
☐ Deemed University	☑ Affiliated
☐ Government Aided	

5 Ownership Status:

☐ Central Government	☐ Trust
☐ State Government	☐ Society
☐ Government Aided	☐ Section 25 Company
☑ Self financing	☐ Any Other(Please Specify)

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

Name of Institutions	Year of Establishment	Programs of Study	Location

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

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Electronics and Communication Engineering	UG	2008	2008	60	Yes	120	Applying first time	--	--	Yes	4

Sanctioned Intake for Last Five Years for the Electronics and Communication Engineering	
Academic Year	**Sanctioned Intake**
2019-20	120
2018-19	120
2017-18	60
2016-17	60
2015-16	120
2014-15	120

Civil Engineering	UG	2010	2010	60	Yes	60	Eligible but not applied	--	--	No	4

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Electrical and Electronics Engineering	UG	2008	2008	60	Yes	60	Eligible but not applied	--	--	0	4
Mechanical Engineering	UG	2009	2009	60	Yes	60	Eligible but not applied	--	--	0	4
Computer Science and Engineering	UG	2008	2008	60	Yes	120	Applying first time	--	--	0	4
Master of Business Administration	PG	2009	2009	60	No	60	Eligible but not applied	--	--	0	2

Sanctioned Intake for Last Five Years for the Civil Engineering

Academic Year	Sanctioned Intake
2019-20	60
2018-19	60
2017-18	60
2016-17	60
2015-16	120
2014-15	120

Sanctioned Intake for Last Five Years for the Electrical and Electronics Engineering

Academic Year	Sanctioned Intake
2019-20	60
2018-19	60
2017-18	60
2016-17	60
2015-16	0
2014-15	60

Sanctioned Intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned Intake
2019-20	60
2018-19	120
2017-18	120
2016-17	120
2015-16	120
2014-15	120

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science & Engg.
2	Under Graduate	Engineering & Technology	Electronics & Communication Engg.

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	60	60	70	70	70	70
Faculty in Engineering (Female)	24	24	32	32	45	45
Faculty in Maths, Science & Humanities (Male)	13	13	16	16	21	21
Faculty in Maths, Science & Humanities (FeMale)	10	10	10	10	14	14
Non-teaching staff (Male)	51	51	55	55	54	54
Non-teaching staff (FeMale)	31	31	33	33	38	38

B. Contractual* Employees (Faculty and Staff):

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

10 Total number of Engineering Students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☐ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☑ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	831	862	881
Total no. of Girls	357	330	288
Total	**1188**	**1192**	**1169**

Engineering and Technology- MBA Shift-1

Items	2019-20	2018-19	2017-18
Total no. of Boys	31	35	60
Total no. of Girls	37	45	51
Total	**68**	**80**	**111**

11 Vision of the Institution:

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.

12 Mission of the Institution:

- To offer undergraduate and post-graduate programs that are supported through industry relevant curriculum and innovative teaching and learning processes that would help students build knowledge and skills for 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.

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

Head of the Institution	
Name	Dr R S Jahagirdar
Designation	Principal
Mobile No.	8978991991
Email ID	principal@kgr.ac.in

NBA Coordinator, If Designated

Name	Mr. K. Uma Shankar
Designation	Head-Accreditation
Mobile No.	9985113191
Email ID	headaccreditation@kgr.ac.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	98.19
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	163.78
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	44.84
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**907**

VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

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

Vision and Mission of the Institute:

<table>
<tr><td>Vision of the institute</td><td>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.</td></tr>
<tr><td>Mission of the institute</td><td>• 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 organisations 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.</td></tr>
<tr><td>Vision of the Department</td><td>To be recognized as a full-fledged center for learning and research in various fields of Electronics and Communication Engineering through industrial collaboration and to provide consultancy for solving the real time socio-economic problems.</td></tr>
<tr><td>Mission of the Department</td><td>
<table>
<tr><th>Mission No.</th><th>Mission Statements</th></tr>
<tr><td>M1</td><td>To provide innovative teaching and learning in the contemporary technologies in Electronics and Communication Engineering to support the professional aspirations of the students.</td></tr>
<tr><td>M2</td><td>To promote innovation through research and development among faculty and students by providing opportunities for inter-disciplinary learning in collaboration with industry.</td></tr>
<tr><td>M3</td><td>To encourage professional development of students that will inculcate ethical values and leadership skills while working with the community to address societal issues.</td></tr>
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1.2 State the Program Educational Objectives (PEOs) (5)

PEO No.	Program Educational Objectives Statements
PEO1	To be equipped with skills for solving complex real-world problems related to VLSI, Embedded Systems, Signal/Image processing, and Digital and Wireless Communication.

PEO2	To develop professional skills that will equip them to succeed in their careers and encourage lifelong learning in advanced areas of Electronics and communications and related fields.
PEO3	To communicate effectively, work collaboratively and exhibit high levels of professionalism, moral and ethical responsibility.
PEO4	To develop the ability to understand and analyze engineering issues in a broader perspective with ethical responsibility towards sustainable development.

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

College website: https://kgr.ac.in/our-vision-mission/
Department website: https://kgr.ac.in/electronics-communication-engineering/#vision-mission
Department notice boards
HOD Office
College Brochure
Staff Rooms
Laboratories
Corridors
Course Files
Student Handbook

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

The process for defining Vision and Mission of the department started with a brainstorming session at the department level and later evaluated and approved through a consultative process involving the stakeholders of the department, Department Advisory Board (DAB) and Governing Body (GB).

The steps for collecting inputs and analyzing for defining Vision and Mission are as follows:

Step 1: Brainstorming
Brainstorming session was conducted by inviting various internal stakeholders (faculty, students, and staff) and external stakeholders (parent, alumni, and external experts). The brainstorming session resulted in the first set of vision and mission statements that are strategically aligned to the institutions vision and mission statements.

Step 2: Evaluation
The vision and mission statements drafted in the brainstorming session are communicated to the Program Assessment Committee (PAC) Coordinator who made changes and finalized statements with feedback and suggestions the Department Advisory Board (DAB).

Step 3: Approval / Validation
The finalized Vision and Mission statements are later sent to the Governing Body (GB) for approval.

Step 4: Dissemination

After receiving approval from GB, the department vision and mission are published and disseminated to the stakeholders through various mediums as mentioned

The process for defining the PEOs of Program:

The Program Educational Objectives are established through a consultation process involving the various stakeholders such as students, alumni, industry, faculties and employers. The following process was followed to define the department PEO's:

Step 1: Vision, mission, and graduate attributes of the department are taken as basis to interact with various stake holders and define the PEO statements.

Step 2: Program coordinator consults the key constituents and collects their views and submits the views to Departmental Advisory Board (DAB). DAB summarizes the collected views and expresses its opinion on the views to define the PEO statements of the department. The PEO statements are later sent to the Program Assessment Committee (PAC) for feedback and verification.

Step 3: After receiving approval from GB, the department vision and mission are published and disseminated to the stakeholders through various mediums as mentioned

Process for defining PEOs

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

Justification for Mapping

The mapping for PEO statements with department mission statements is carried using three weightage indicators: 3 – strong correlation; 2 – moderate correlation; 1 – weak correlation.

PEO1

- EO1 is strongly correlated with M1 as equipping students with complex problem solving skills will be carried out through implementing innovative pedagogical practices and industry- relevant curriculum that will be aligned with the professional aspiration of students.
- With M2, there is an intermediate correlation as promotion of research and development will include investigation and solving of complex-problems in emerging areas such as VLSI, embedded systems, and wireless communication.
- There exists a medium correlation with M3 as problem-solving ability is needed as a pre-requisite to understand, identify, and solve societal issues.

PEO2

- PEO2 has a medium correlation with M1 as professional skills are developed among students through innovative pedagogies such as Project-Based learning (PBL), and Collaborative and Cooperative Learning.
- PEO2 has medium correlation with M2 as professional skills are also developed through conduction of research where students develop the writing and presentation skills that essential to communicate their research findings.
- Students also get an opportunity to hone their professional skills while working on societal challenges that require them to engage in discussions to interact with community partners and manage projects effectively. Therefore, PEO2 has a strong correlation with M3.

PEO3

- PEO3 as a medium correlation with M1 as students learn how to communicate, work in groups through innovative pedagogies in the classroom.
- There exists a medium correlation with M2 as students learn the importance of ethical research practices while conducting research
- PEO3 is highly correlated with M3 as students while working on solving community level challenges interact in teams, communicate professionally with community partners, and evaluate the implications of technological solutions on the environment and society

PEO4

- PEO4 has strong correlation with all the mission statements as students need to have knowledge of contemporary technologies, need to be able to work in inter-disciplinary teams, and work collaboratively with community partners to understand, analyze and solve engineering challenges that will lead to sustainable development.

PEOs Statements	M1	M2	M3
PEO 1: To be equipped with skills for solving complex real-world problems related to VLSI, Embedded Systems, Signal/Image processing, and Digital and Wireless Communication.	3	2	2
PEO 2: To develop professional skills that will equip them to succeed in their careers and encourage lifelong learning in advanced areas of Electronics and communications and related fields	2	2	3
PEO 3: To communicate effectively, work collaboratively and exhibit high levels of professionalism, moral and ethical responsibility.	2	2	3
PEO 4: To develop the ability to understand and analyze engineering issues in a broader perspective with ethical responsibility towards sustainable development.	3	3	3

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

2.1.1 - State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

- The distribution of courses among curriculum components is done as prescribed by the affiliated university JNTU Hyderabad.
- These curriculum components are in turn mapped to POs and PSOs
- COs of all the courses in the curriculum are then mapped to POs defined by NBA with proper correlation factor.
- PAC reviews the computed values and any PO not correlated to any course indicates a curriculum gap.
- The BoS, to correct the gaps, recommends organizing various activities such as workshops, seminars, guest lectures, certificate and value-added courses.

Subject Course Classification

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects
2		ES - Engineering Sciences	Includes fundamental engineering subjects
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management
4	Core Courses	PC – Professional Core	Includes core subjects related to the parent discipline/ department/ branch of Engineering.
5	Elective Courses	PE – Professional Electives	Includes elective subjects related to the parent discipline/ department/ branch of Engineering.
6		OE – Open Electives	Elective subjects which include inter- disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7		Project Work	B.Tech. project or UG project or UG major project or Project Stage I & II

8	Core Courses	Industrial training/ Mini- project	Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project
9	Seminar		Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

The components of the curriculum and their relevance to POs and PSOs Regulation R16

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits	POs	PSOs
Includes mathematics, physics and chemistry subjects	15.24	25	25	PO1, PO2, PO3, PO4, PO9, PO12.	PSO1, PSO2, PSO3, PSO4.
Includes fundamental engineering subjects	10.97	12	18	PO1, PO2, PO3, PO4, PO5, PO12	PSO1, PSO2, PSO3, PSO4.
Includes subjects related to humanities, social sciences and management	6.70	18	11	PO6, PO7, PO8, PO9, PO10, PO11, PO12.	PSO1, PSO3, PSO4.
Includes core subjects related to the parent discipline/ department/ branch of Engineering.	39.6	64	65	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO12.	PSO1, PSO2, PSO3, PSO4.
Includes elective subjects related to the parent discipline/ department/ branch of Engineering	5.48	9	9	PO1, PO2, PO3, PO4, PO5, PO12.	PSO1, PSO2, PSO3, PSO4.

Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.	10.9	18	18	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12.	PSO1, PSO2, PSO3, PSO4.
B. Tech. project or UG project or UG major project or Project Stage I & II Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project	10.36	33	17	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12.	PSO1, PSO2, PSO3, PSO4.
Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering.	0.6	2	1	PO5, PO6, PO10, PO11.	PSO1, PSO2, PSO3, PSO4.

The components of the curriculum and their relevance to POs and PSOs Regulation R15

Course Component	**Curriculum Content (% of total number of credits of the program)**	**Total number of contact hours**	**Total number of credits**	**POs**	**PSOs**
Includes mathematics, physics and chemistry subjects	13.9	18	28	PO1, PO2, PO3, PO4, PO9, PO12	PSO1, PSO2, PSO3, PSO4.
Includes fundamental engineering subjects	9.95	13	20	PO1, PO2, PO3, PO4, PO5, PO12.	PSO1, PSO2, PSO3, PSO4.

Includes subjects related to humanities, social sciences and management	9.95	19	20	PO6, PO7, PO8, PO9, PO10, PO11, PO12.	PSO1, PSO3, PSO4.
Includes core subjects related to the parent discipline/ department/ branch of Engineering.	45.77	92	92	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO12	PSO1, PSO2, PSO3, PSO4.
Includes elective subjects related to the parent discipline/ department/ branch of Engineering	1.9	4	4	PO1, PO2, PO3, PO4, PO5, PO12	PSO1, PSO2, PSO3, PSO4.
Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.	9.95	20	20	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2, PSO3, PSO4.
B.Tech. project or UG project or UG major project or Project Stage I & II Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project	7.46	14	15	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12	PSO1, PSO2, PSO3, PSO4.
Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering.	0.99	6	2	PO5, PO6, PO10, PO11	PSO1, PSO2, PSO3, PSO4.

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

The department has initiated the following measures to bridge the identified curricular gaps.

- **Guest lecturers**: Experts from industry and academia are invited to deliver lectures on the latest trends and thrust areas in Information Science and Engineering.
- **Technical talk:** Students are kept updated about the advances in technologies through technical seminars.
- **Workshops**: The department has introduced a novel initiative for students, wherein they are encouraged to participate in hands-on workshops thereby enhancing their application skills.
- **Soft skill training:** The department emphasizes on personality development through soft skills training programs to improve the employability of students.
- **Industrial visits**: Visits to industries of repute are organized every year to keep the students abreast with applications of Information Science and Engineering.
- **Internships**: Students are encouraged to take-up short-term internships in industries and recognized R&D centers to understand industry practices.

2.1.2.1Training Programs/Workshops offered in Academic Year 2019-20

S. No	Gap/Add-On Courses	Action Taken / Name of the Programme	From Date	To Date	Resource Person with Designation	No of students	Relevance POs, PSOs
1	Students are required to have skills to design and develop solutions using modern tools	A Five-day workshop on "A Boot Camp on Python Programming" for IV-Year students	10-Nov-19	14-Nov-19	Mr. Arpit Yadav, Assistant professor	33	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
2	Students required to have skills for design and developing solutions using modern tools for effective professional skill development	A One-day workshop arranged on "IOT and Idea to Product" for II-Year students.	2-Nov-19	2-Nov-19	Mr. G. Krishna, CEO- Next Byte Innovations	71	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
3	Students are required to have skills to design and develop solutions using modern tools	A Five day workshop arranged on "Java oracle fundamentals"	29-Oct-19	2-Nov-19	Mr. P. Ramesh, Senior Technical Trainer, TASK	33	PO1, PO2, PO3, PO5, PO12. PSO1,

		for IV-Year students.					PSO3.
4	Students required are to have skills to design and develop solutions for effective communication and professional skills	A One-day workshop arranged on "VLSI" for IV-Year students	6-Sep-19	6-Sep-19	Mr. P R Sivakumar, CEO- Maven Silicon	12	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.
5	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Conducted Seminar on "Future Technology in .Net GUI" for IV-Year students	9-Aug-19	9-Aug-19	Mr. K. V. Subba Reddy	32	PO1, PO2, PO3, PO5, PO10, PO12. PSO1, PSO3, PSO4.
6	Students are required to have skills to design and develop solutions using modern tools	Arranged a Certificate Course on "Fundamentals of Python programming".	August-2019	October-2019	Mr. Arpit Yadav, Associate Professor, KGRCET	165	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
7	Students are required to have skills to design and develop solutions using modern tools	Arranged a Value-added Course on "Introduction to Machine learning using Python".	10-Nov-19	15-Nov-19	Mr. Arpit Yadav, Associate Professor, KGRCET	33	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
8	Students are required to design and develop solutions using modern tools to solve societal, environmental, health, legal and cultural by following professional ethics and moral values	Arranged a Guest Lecture On Network Analysis & Transmission Lines for II-Year students	31-Oct-19	31-Oct-19	Ms. Samyuktha, HOD, EEE, KGRCET	100	PO1, PO2, PO3, PO5, PO7, PO8, PO10, PO12. PSO1, PSO2, PSO3, PSO4.
9	Students are required to have skills to design and develop solutions	Arranged a Guest Lecture on "ARDUNIO" for III-Year	19-Aug-19	19-Aug-19	Mr. K. V. Subba Reddy Mr. Vikram Reddy	45	PO1, PO2, PO3, PO5, PO9, PO10,

	using modern tools for effective professional skills	students			(Alumni)		PO12. PSO1, PSO3, PSO4.

2.1.2.2 Training Programs/Workshop offered in Academic Year 2018-19

S. No	Gap/Add-On Courses	Action Taken/ Name of the Programme	From Date	To Date	Resource Person with Designation	% of students	Relevance POs, PSOs
1	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	A Five day Workshop on "Robotics" arranged for II & III-Year students	25-Mar-19	29-Mar-19	Mr. Mahipal Data Point Info Solutions	100	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
2	Group activities needed to develop effective communication, professional and management skills by following ethics and moral values for sustainability.	A Two day Workshop on "Personality Development" arranged for II-Year students	18-Mar-19	19-Mar-19	Dr. Vivek Modi Mr. K. Rama Krishna	88.46	PO6, PO8, PO9, PO10, PO11. PSO2, PSO4.
3	Students are required to have skills to design and develop solutions using modern tools	A Three day Workshop on "Oracle Database Design & Programming with SQL arranged for III-Year Students	6-Mar-19	8-Mar-19	Mr. P. Arun Reddy Technical Trainer, TASK	96.77	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
4	Need to improve Problem solving and analyzing skills among students.	Aptitude and Reasoning through "Massive Open Online Courses (MOOC's)" arranged for II-Year students	8-Nov-18	8-Nov-18	Ms. Durga Devi Technical Trainer, TASK	55.76	PO1, PO2, PO4. PSO1, PSO3.
5	Students are	A Five day	29-Oct-	2-	Mr. P. Arun Reddy	100	PO1, PO2,

	required to have skills to design and develop solutions using modern tools	Workshop on "Java applications" arranged for III-Year students	18	Nov-18	Technical Trainer, TASK		PO3, PO5, PO12. PSO1, PSO3
6	Students are required to have skills to design and develop solutions using modern tools	A Three day Workshop on "Oracle and SQL" arranged for IV-Year students	22-Oct-18	24-Oct-18	Mr. P. Vamshidhar Reddy Senior Trainer, TASK	74.11	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
7	Students are required to have skills to design and develop solutions using modern tools for lifelong learning	A Two day Workshop on "Oracle and SQL applications" arranged for III-Year Students	26-Sep-18	27-Sep-18	Mr. Bavusaheb B. K Mr. A. Vijaya Bhasker Reddy	84.84	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
8	Group activities needed to develop effective communication, professional and management skills by following ethics and moral values for sustainability.	A Two-day training program on "Organizational and Interview skills" arranged for IV-Year students	17-Aug-18	18-Aug-18	Mr. Satish Senior Trainer, TASK	50.58	PO6, PO8, PO9, PO10, PO11. PSO2, PSO3, PSO4.
9	Group activities needed to develop effective communication, professional and management skills by following ethics and moral values for sustainability.	Conducted a Seminar on Career Opportunities for IV-Year students	26-Oct-18	26-Oct-18	Mr. B. Ranjith	89.41	PO6, PO8, PO9, PO10, PO11 PSO2, PSO3, PSO4.
10	Group activities needed to develop effective communication, professional and management skills by following ethics and moral values for	Conducted a Seminar on "Career Guidance" for IV-Year students	11-Sep-18	11-Sep-18	Mr. K. V. Ramana	64.7	PO6, PO8, PO9, PO10, PO11 PSO2, PSO3, PSO4

	sustainability.						
11	Student should improve professional and management skills by following ethics and moral values for sustainability.	Arranged a Seminar on "Ethics & Human Values" for IV-Year students	4-Jul-18	4-Jul-18	Dr. Manish Jain	45.88	PO8. PSO4
12	Students are required a thorough knowledge on communication systems for Analyzing various issues associated with it.	Arranged a Seminar on Fundamentals of Communication Systems for IV-Year students	4-Jul-18	4-Jul-18	Mr. M. N. Narsaiah	29.41	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
13	Students are required to have skills to design and develop solutions using modern tools for solving complex problems	Arranged a Guest Lecture on Digital Signal Processing for III-Year students	26-Feb-19	26-Feb-19	Dr. J. Naga Vishnu Vardhan Prof & HOD ECE, BVRIT Women College, Hyderabad	100	PO1, PO2, PO3, PO4, PO5, PO12. PSO1, PSO2, PSO3, PSO4.
14	Students are required to design and develop solutions using modern tools to solve societal, environmental, health, legal and cultural by following professional ethics and moral values	Arranged a Guest Lecture on Network Analysis for II-Year students	05-Nov-18	05-Nov-18	Dr. T. V. V. Pavan Kumar, Associate Professor, KGRCET	100	PO1, PO2, PO3, PO5, PO7, PO8, PO10, PO12 PSO1, PSO2, PSO3, PSO4.
15	Students required activities for design and developing solutions for complex problems of societal, environmental, health, legal and cultural	Conducted a Guest Lecture on Electromagnetic Theory & Transmission lines (EMTL) for III-Year students	26-Sep-18	26-Sep-18	Mr. V. V. V. S Prasad, Associate Professor, JBIET	100	PO1, PO2, PO4, PO6. PSO1, PSO2, PSO3, PSO4.
16	Students are required to have skills to design and	Arranged a Certificate Course on "IOT	25-Sep-18	29-Sep-18	Mr.Bavusaheb.B.K, Assistant Professor, KGRCET, Vijaya	100	PO1, PO2, PO3, PO5, PO9,

	develop solutions using modern tools for improving professional skills	using ARDUNIO" for III Year Students			Bhasker reddy, Assistant Professor, KGRCET		PO10, PO12. PSO1, PSO3, PSO4.
17	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Arranged a Certificate Course on PCB design and Fabrication for II Year Students	17-Sep-18	21-Sep-18	Mr. Bavusaheb.B.K, Assistant Professor, KGRCET	68.51	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.
18	Students are required to have skills to design and develop solutions using modern tools	Arranged a Value added on Course Oracle database applications for III Year Students	22-Oct-18	26-Oct-18	Mr. P. Arun Reddy Technical trainer, TASK.	97.33	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3
19	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Arranged a value added course on "Digital Design using Verilog" for II Year Students	19-Feb-19	23-Feb-19	Mr.Bavusaheb.B.K, Assistant Professor, KGRCET, Vijaya Bhasker reddy, Assistant Professor, KGRCET	100	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.

2.1.2.3 Training Programs/Workshop offered in Academic Year 2017-18

S. No	Gap/Add-On Courses	Action Taken / Name of the Programme	From Date	To Date	Resource Person with Designation	No of students	Relevance POs, PSOs
1	Students should have professional and management skills by following ethics and moral values for sustainability.	Arranged a Seminar on "Intellectual Property Rights".	8-Feb-18	8-Feb-18	Dr. Srinivasan Vathsal Rtd. Director DRDO	53.54	PO4, PO6, PO8, PO9, PO11.
2	Students are required to have skills to design and develop solutions using	Arranged a Certificate Course on "IOT using	04-Sep-17	08-Sep-17	Mr. Bavusaheb. B. K, Assistant Professor,	50.57	PO1, PO2, PO3, PO5, PO9, PO10,

	modern tools for improving professional skills	ARDUNIO" for III Year Students			KGRCET. Mr. Vijaya Bhasker Reddy, Assistant Professor, KGRCET		PO12. PSO1, PSO3, PSO4.
3	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Arranged a Certificate Course on PCB design and Fabrication for II Year Students	11-Sep-17	15-Sep-17	Mr. Bavusaheb. B. K, Assistant Professor, KGRCET	97.3	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.
4	Students are required to have skills to design and develop solutions using modern tools	Arranged a Value added on Course Oracle database applications for III Year Students	12-Aug-17	16-Aug-17	Mr. P. Arun Reddy Technical trainer, TASK.	49.42	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
5	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Conducted a value added course on "Digital Design using verilog" for II Year Students	12-Mar-18	16-Mar-18	Mr. Bavusaheb. B. K, Assistant Professor, KGRCET. Mr. Vijaya Bhasker reddy, Assistant Professor, KGRCET	81.57	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.

2.1.2.4 Training Programs/Workshop offered in Academic Year 2016-17

S. No	Gap/Add-On Courses	Action Taken / Name of the Programme	From Date	To Date	Resource Person with Designation	No of students	Relevance POs, PSOs
1	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Conducted a Workshop on "IOT Maker Space" for III Year Students	03-Jan-2017	04-Jan-2017	Mr. Madhu Parvathaneni	100	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.

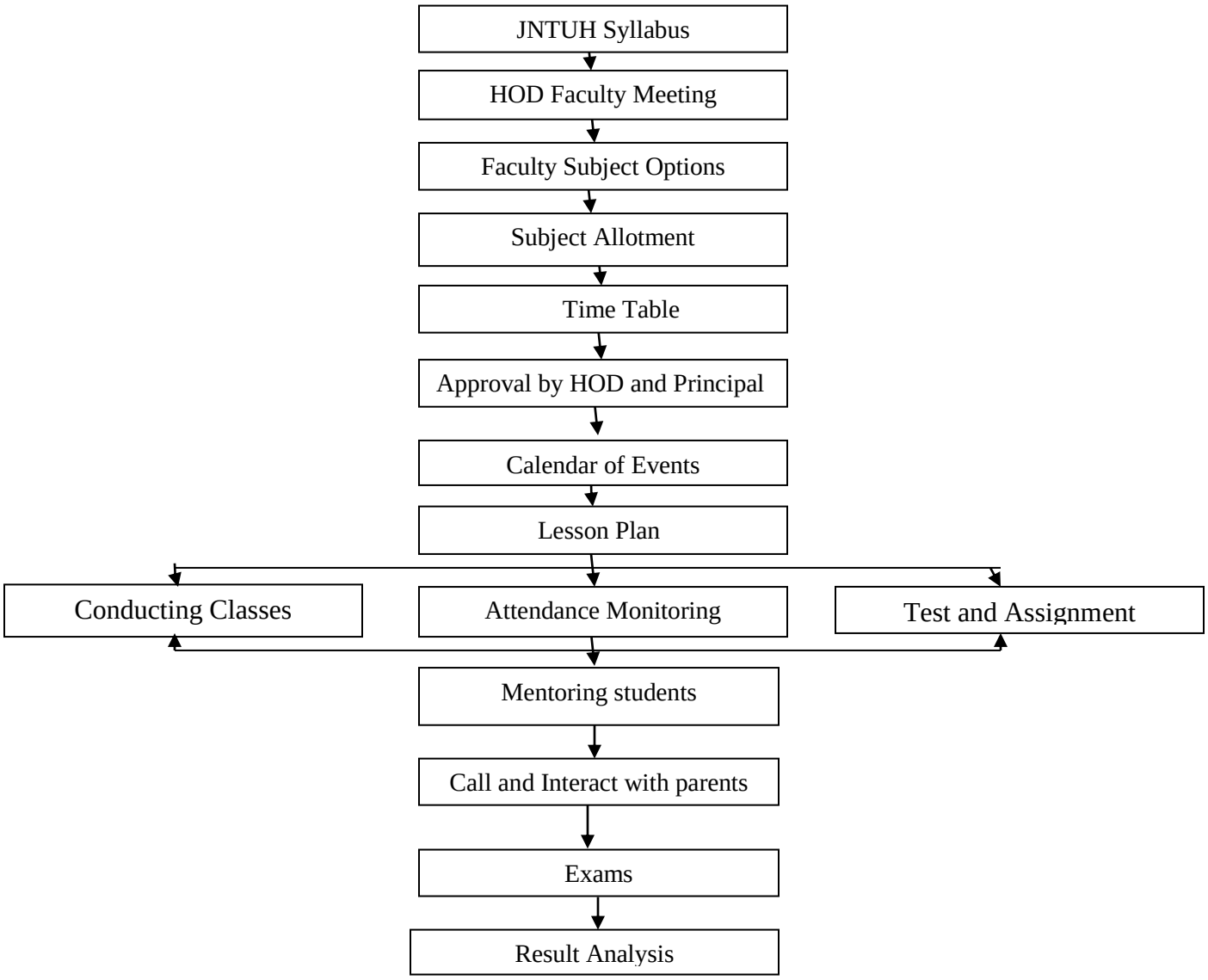
2	Students are required to have skills to design and develop solutions using modern tools for solving complex problems	Arranged a Seminar on "Digital Image Processing" for III & IV Year Students	26-Sep-2016	26-Sep-2016	Mr. Praneeth Naidu	82.47	PO1, PO2, PO3, PO4, PO5, PO12. PSO2, PSO4.
3	Students are required to have skills to design and develop solutions using modern tools for effective communication and professional skills	Conducted a Workshop on "PCB Design and Fabrication" for II Year Students	19-Aug-2016	20-Aug-2016	Arjun Modi Sr. Trainer TASK	100	PO1, PO2, PO3, PO10, PO12. PSO1, PSO3, PSO4.

2.2 Teaching - Learning Processes (100)

2.2.1 Processes followed to improve quality of Teaching and Learning (25):

2.2.1A Adherence to Academic Calendar

Department prepares calendar of events based on the academic calendar of JNTUH and calendar of events of the college. The calendar of events of the Department includes the activities planned like guest lectures, industrial visit and Workshops dates. The staff members and students adhere to the calendar of events to meet the department's planned events. The academic calendars of JNTUH, calendar of events of college and the Department are shown in given Figure below respectively. Lesson plan for each course is designed by the course coordinators adhering to the calendar of events of the department.



2.2.1-A Academic Calendar:

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
FOR NON-AUTONOMOUS CONSTITUENT& AFFILIATED COLLEGES
B. TECH./B.PHARM. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	15th July 2019	--
2	First Mid Term Examinations	12th to 14th Sept. 2019	--
3	Submission of First Mid Term Exam Marks to University on or before	20th Sept. 2019	--
4	Parent-Teacher Meeting	21st Sept. 2019	--
5	Dussehra recess	7th to 19th Oct. 2019	2 weeks
6	Last date of Instruction	20th Nov. 2019	17 weeks
7	Second Mid Term Examinations	21st to 23rd Nov. 2019	--
8	Preparation Holidays and Practical Examinations	25th to 30th Nov. 2019	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	30th Nov. 2019	--
10	End Semester Examinations	2nd to 14th Dec. 2019	2 weeks

II SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	16th Dec. 2019	--
2	First Mid Term Examinations	10th to 12th Feb. 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	19th Feb. 2020	--
4	Parent-Teacher Meeting	14th March 2020	--
5	Last date of Instruction	7th April 2020	16 weeks
6	Second Mid Term Examinations	8th to 11th April 2020	--
7	Preparation Holidays and Practical Examinations	13th to 18th April 2020	1 week
8	Submission of Second Mid Term Exam Marks to University on or before	18th April 2020	--
9	End Semester Examinations	20th April to 2nd May 2020	2 weeks
10	Summer Vacation	4th May to 4th July 2020	9 weeks

21.10.19
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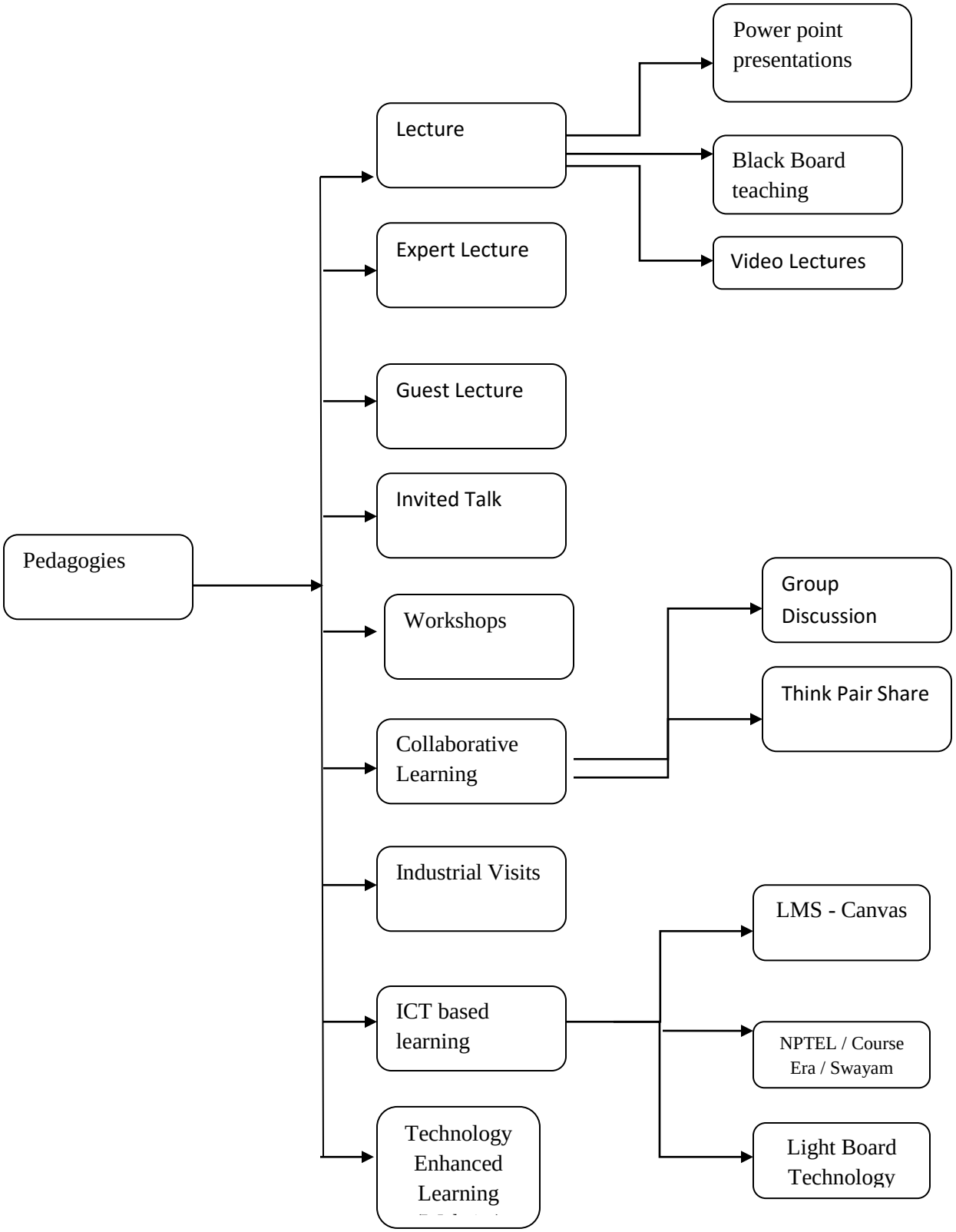
ACADEMIC & PLANNING, JNTUH

2.2.1-B. Instructional Methods and Pedagogies: Department follows Outcome Based Education (OBE) approach. Faculties use innovative teaching methods to cater for the needs of OBE. The pedagogies followed by the department is as shown in figure below.



1. **Collaborative Learning**
   - Collaborative learning is based on the view that knowledge is a social construct.
   - Collaborative learning can occur peer-to-peer or in larger groups.
   - This often occurs in a class session after students are introduced to course material through readings or videos before class, and/or through instructor lectures.

2. **Think-pair-share**
   - The course coordinator poses a question that demands analysis and evaluation.
   - Students take a few minutes to think through an appropriate response.
   - Students turn to a partner (or small groups) and share their responses.
   - Student responses are shared within larger teams or with the entire class during a follow-up discussion.

3. **ICT Supported Learning**
   - Students are advised to register for MOOCs (Massive Open Online Courses) and watch NPTEL, JNTUH e-Learning, edX and SWAYAM videos and the students are encouraged to write assignments. In classroom, students are encouraged to give presentations to improve their basic knowledge, communication skills in the respective subject.
   - Simulation software like PSpice, MATLAB and AutoCAD are used for effective learning.

4. **Technology Enhanced Learning:** In this method of learning, teaching methodology is supported by the technology. Course website is created and students are given the access to the website. The material related to the subject would be posted in the website for student's reference. The Assignment questions are being posted by the facilitator. The same can be answered by the students. Students can clarify their doubts by posting questions, and discussions on the subject could be held in the website.

5. **Workshop**:
   - Department organizes at least two workshops per academic year to facilitate the students in having a hands on training in a specific domain.
   - These workshops enable students in learning and realizing new and latest technologies.
   - The students get a platform to exhibit their ideas and implement them in reality.

2.2.1C Methodologies to support weak students and encourage bright students

The institution conducts an Induction Program for 12 days with an aim to determine the learning level of the students and the following mechanism is adopted. Diagnostic tests are conducted for all students to evaluate their understanding of the fundamentals of Mathematics, Physics, Chemistry, and English. The

academic assessment of the students is carried out by considering three grading factors for weightage Test on fundamentals of basic sciences (Diagnostic test) Intermediate scores EAMCET marks Apart from the diagnostic tests, all the faculty in the H&S department devote time during the first few days of classes to interact with the students. During the interaction, the faculties try to understand the academic background of students, their pace of learning, personality, motivation, interests, and career aspiration. This interaction builds up the much needed rapport of caring and sharing between teachers and students. The initial interact between the faculty and students and the academic assessment of the students help the faculty to identify slow and advanced learners in the classroom. Formative assessments are further conducted during the semester to re-evaluate advanced and slow learners. The formative assessments provide the faculty an overview of the students' learning in different courses so that additional support could be provided to students who develop certain misconceptions during the semester.

Strategies adopted for facilitating Slow Learners:

- Extra Remedial classes are conducted for Slow learners
- Collaborative Learning Practice (CLP)
- Counseling classes are regularly organized to identify the problems of slow learners
- Extra Classes supplemented by course notes
- Counseling through mentor-mentee network is also conducted on comparatively difficult topics for their better understanding and creating confidence in them.
- Home assignments of different levels are provided to improve their performance levels and to boost their confidence in facing the University examination.
- Industry visits are organized.
- Parents are informed about performance of students at parent-teacher meets and their suggestions taken regarding academic progress of the students.

Strategies adopted for facilitating Advanced Learners:

- Project Based Assignments (PBA)
- Enrollment in MOOCs – Coursera, SWAYAM, NPTEL
- Participation in events conducted by Professional bodies like IETE, IEEE.
- Participation in conferences, workshops, state and national level Technical competitions.
- Different levels of home assignments are provided, and ICT special classes are conducted to suit their needs.
- These efforts are helpful in securing high grades by the students and it leads to secure admission in premier national institutions of repute for further higher education and also for better placements.

2.2.1D Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Efforts to keep students engaged: Students are being taught by the Active learning methodologies as discussed above, this method is implemented in the class; the complete class timing is scheduled as follows:

1) First 10 minutes, Students are informed about the objectives of the topic to be taught in the class and Attendance will be taken.
2) Next 15 min Delivery of the lecture topic, Instructions to the students.
3) 5 – 10 minutes any activity as listed bellow would be conducted.
4) Next 15 min Delivery of the lecture topic, Instructions to the students.
5) Last 10 min Summary of the delivered lecture and Question and answer session could be conducted.

Active Learning Strategies: Faculty in the institution implements the following active learning strategies depending on the learning outcomes for their respective courses.

Think – Pair – Share: To facilitate and improve students' articulating abilities, the faculty members implement this method. Faculty posses a question to students on a topic. Then students think individually for a while, pair with their peers and share their responses so as to improve their skills by way of participation.

Just a Minute: The faculty members adopt this method with general topic or subject related topic is given to students and they speak on a given topic in one minute. This enhances their effective communication skills and builds good confidence so that they good at subject.

Ice-breaking Activities: As soon as the faculty enters to the classroom, faculty member pose a question to the students on the topic covered in the previous class to get the attention of the students and also this activity helps the students who are absent to previous class.

Model Preparation: The students prepare prototype model of their own idea under the guidance of faculties and participates in hackathon program. Students are encouraged to build the models on contemporary issues with the help of faculty members. The developed models were showcased in poster presentation, conferences and technical fest.

Co-curricular Activities: Students participate in various co-curricular activities like workshops,

Seminars, technical quizzes, technical expos, Hackathons to facilitate in the development of mind and personality along with moral learning.

Brain storming: The institution adopts this technique by implementing various students' centric methods to enhance the creativity skills in young minds; in turn the students are capable enough to compete with outside world as per the industry expectations.

Flipped Classroom: The faculty members adopt this instructional strategy to engage the students after the class room hours. The faculty members assign a topic to be prepared at home. The faculty members ask students to come up with their views and doubts if any to the next class.

Collaborative learning practice (CLP): The institution implements CLP, in which the students involve in various activities and they interact with their peers to share ideas and information to improve their learning, thinking skills.

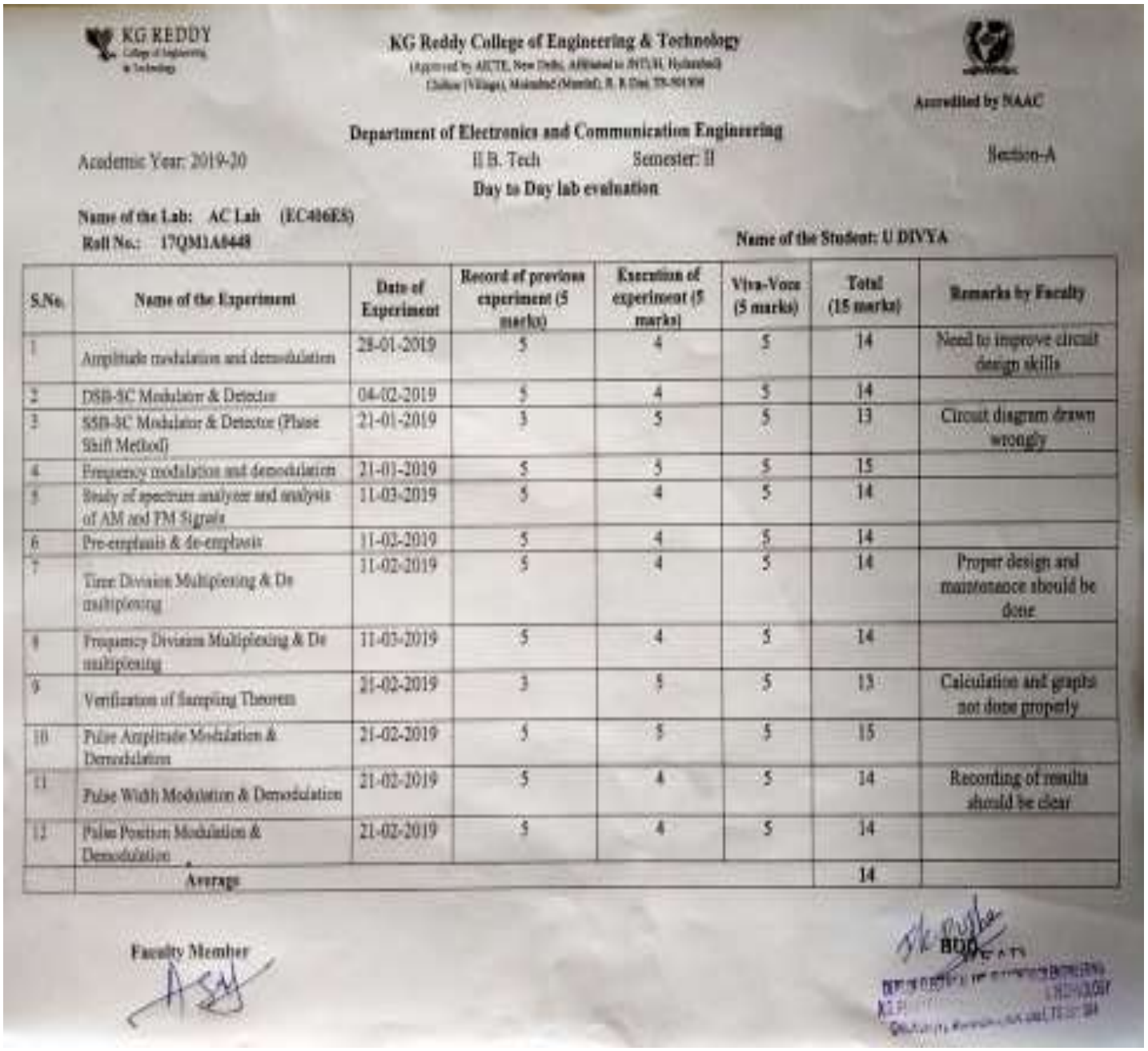
Project Based Assignments: Students are involved in designing prototypes which make students acquire a deeper knowledge through experimental learning by active participation.

2.2.1. E&F. Continuous Assessment in the laboratory

Continuous Assessment in Lab:

Regarding assessment of laboratory work, each experiment is evaluated by the faculty for its circuit, procedure, results, theory and promptness in submission of records and the marks obtained are recorded against each experiment. To improve the outcome of laboratory work done in a semester, internal assessment marks were allotted for prototype product development, where the students are helped to conceive an application based on the knowledge acquired in the lab and develop a prototype as a usable device/ system.

Data Analysis: In each experiment, the students are asked to find the difference between theoretical values and practically observed values are analysed and justified.



KG REDDY College of Engineering & Technology

KG Reddy College of Engineering & Technology

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad)

Chilkur (Village), Moinabad (Mandal), R. R. Dist. TS-501 504

Accredited by NAAC

Department of Electronics and Communication Engineering

Academic Year: 2019-20 II B. Tech Semester: II Section-A

Day to Day lab evaluation

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	3	5	5	13	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	11-03-2019	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	3	5	5	13	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

HOD

2.2.1G - Document for the details of student feedback of teaching learning process and actions taken

Faculty feedback performance for every course is assessed from students with various parameters as defined by the Institution twice in a semester.
The parameters for evaluation are as mentioned below:

- Learning
- Enthusiasm

- Extensiveness
- Examinations
- Assignments
- Overall

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**							

Department of Electronics and Communication Engineering
Year – Semester- Section: IV - I - A
Feedback Analysis Report on the Scale of 1-5

Date: 23-11-2018

S. No	**Name of the Subject**	**Name of the Faculty**	**Learning**	**Enthusiasm**	**Organization**	**Group Interaction**	**Individual Rapport**	**Extensiveness**	**Examinations**	**Assignments**	**Overall**	**Average**	**Grading**
1	Management Science	Mr. MD. Asif	3.70	3.78	3.80	3.88	3.81	3.87	3.71	3.70	3.67	**3.77**	**B+**
2	Microwave Engineering	Mrs. T. Gayatri	4.43	4.49	4.46	4.47	4.46	4.55	4.46	4.45	4.41	**4.47**	**A+**
3	Computer Networks	Mr. Joy Kumar	3.81	3.86	3.84	3.88	3.81	3.85	3.86	3.86	3.87	**3.85**	**B+**
4	Cellular and Mobile Communications	Mrs. P. Spandana	4.10	4.09	4.16	4.21	4.25	4.22	4.22	4.20	4.16	**4.18**	**A**
5	Digital Image Processing	Mrs. A. Deepika	3.93	3.90	3.95	3.97	4.05	3.96	4.03	4.01	3.99	**3.98**	**B+**
6	Embedded System Design	Mr. A. Vijay Bhasker Reddy	4.50	4.50	4.46	4.49	4.48	4.48	4.43	4.43	4.47	**4.47**	**A+**
7	Advanced Communication Skills LAB	Mrs. P. Madhavi	3.96	3.97	3.98	4.01	3.93	3.94	3.98	4.00	4.11	**3.99**	**B+**
8	Microwave & DC LAB	Mrs. T. Gayathri	4.41	4.45	4.42	4.39	4.41	4.45	4.36	4.40	4.46	**4.42**	**A+**

KG REDDY
College of Engineering
& Technology

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Date: 4/03/2019

ACTION TAKEN REPORT ON STUDENT FEEDBACK-1

Name of the faculty : Mr. Md.Asif
Name of the subject : Analog Communications Laboratory
Year/Sem/Section : II /II/A
Department : ECE

earning	Enthusiasm	Organization	Group Interaction	Individual Rapport	Extensiveness	Examinations	Assignments	Overall	total	Average	Grading
4.00	4.01	3.98	3.90	3.88	3.94	3.96	3.99	3.93	35.60	3.96	B+

	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 above feedback faculty got good response.
2. The faculty is suggested to improve more wherever they required by making the students to involve in group discussion, active learning methods.
3. It is also suggested to make use of ICT tools and innovative teaching methods, which improves the overall teaching learning process.

ALL THE BEST

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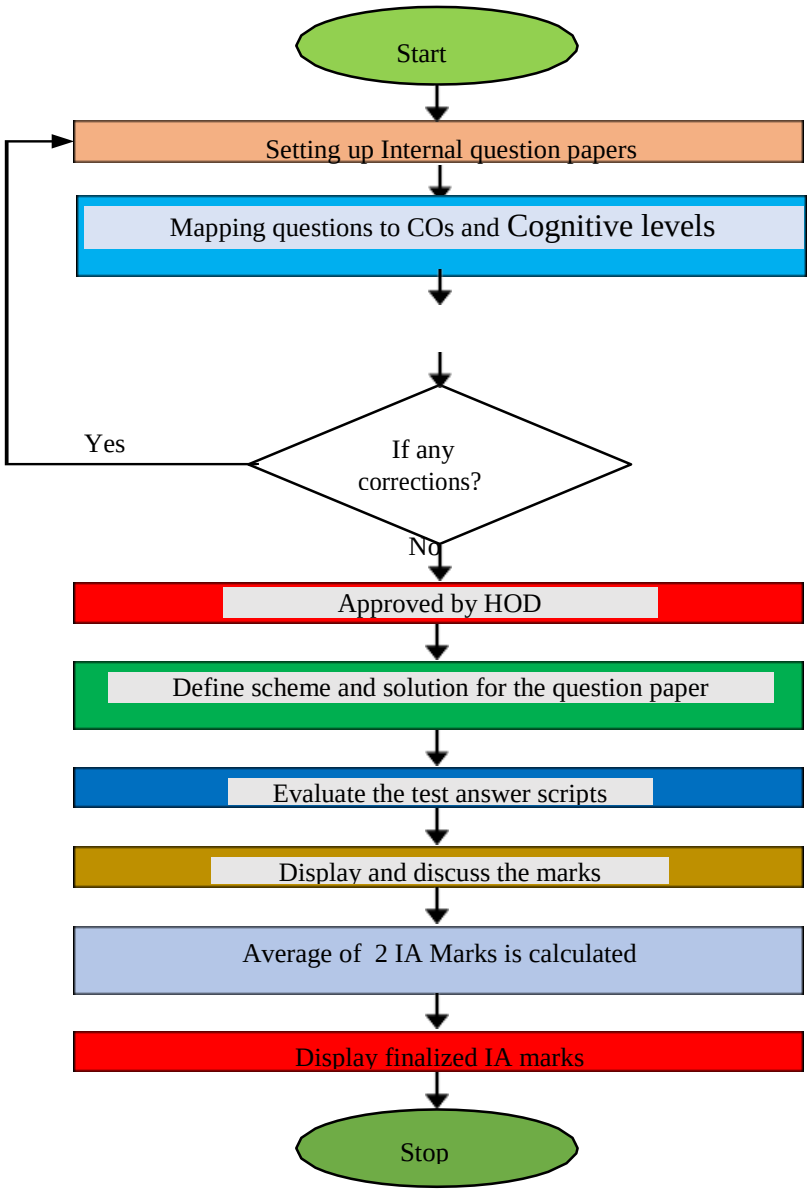
HOD

PRINCIPAL

KG Reddy College of Engineering & Technology
Chilkur (V), M...
R.R.Dist...

2.2.2-A. Quality of internal semester Question papers, Assignments and Evaluation

- Internal exam question papers are framed using verbs from Blooms Taxonomy
- The class/unit tests are conducted for the students using previous year's university questions after completion of every unit.
- Students in every class are formed into group with a topper in each group and Quiz, CLP and debate are conducted as group activity
- Evaluation of every experiment is followed to improve students' performance in laboratory
- The evaluation scores obtained from semester internal exam and Continuous evaluation are mapped to COs.



- Figure: Process for internal assessment question paper setting and evaluation

K. G. Reddy College of Engineering &Technology
(Approved by AICTE, Affiliated to JNTUH)
Chilkur (Vil), Moinabad (Mdl), RR District

Name of the Exam: I mid Examinations **September– 2018**
Year-Sem & Branch: III-I &ECE **Duration: 60 Min**
Subject: Digital Communications (DC) **Date & Session**
Answer **ANY TWO** of the following Questions **2X5=10** Marks

S.NO	Questions	BLOOM'S LEVEL	COURSE OUTCOME
1	a) State and proof Sampling theorem b) A signal X(t) = 1+ cos 2[[100t, is sampled at a rate of 500 samples/sec. Determine i) Sketch the spectrum ii) Nyquist rate iii) Check weather aliasing takes place or not iv) Sketch the sampled spectrum v) Specify the gain and cutoff frequency of LPF by which original signal can be reconstructed	REMEMBER	CO1
2	a) Explain the different type's errors in Delta modulation system? And how to rectify them b) A signal having BW = 3.5 KHz is transmitted by PCM. The transmission rate of coded signal is 50 K bits/second. Determine maximum SNR obtained by the system. The input signal has peak to peak value of 4V & rms value of 0.2V.	UNDERSTAND	CO1
3	Apply Huffman coding for the following message and ensemble [X]=[x1, x2, x3, x4, x5, x6, x7] [P]=[0.4, 0.2, 0.12, 0.08, 0.08, 0.08, 0.04]	APPLY	CO2
4	Consider a (7,4) block code generated by G= $\begin{vmatrix} 1000 & 110 \\ 0100 & 011 \\ 0010 & 101 \\ 0001 & 111 \end{vmatrix}$ Explain how error Syndrome S helps in correcting a single bit error, what happens when more than one error occurs?	ANALYZE	CO2

CO ATTAINMENT
ACADEMIC YEAR-2019-2020

CO ATTAINMENT
ACADEMIC YEAR-2018-2019

Course Name: DIGITAL COMMUNICATIONS (EC503PC)
Course Instructor: M.N.Narsaiah

COURSE OUTCOMES

CO1: Describe basic components of Digital Communication Systems.

CO2: Compare different error detecting and error correction codes like block codes, cyclic codes and convolution codes.

CO3: Design optimum receiver for Digital Modulation techniques.

CO4: Analyze the error performance of Digital Modulation Techniques.

CO5: Define spread spectrum and its types.

CO-PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	Pso4
CO1	3	3	3	2	-	-	-	-	-	-	-	3	3	3	1	1
CO2	3	3	3	2	-	-	-	-	-	-	-	3	3	1	1	
CO3	2	2	-	-	-	-	-	-	-	-	-	1	2	3	1	1
CO4	3	3	-	2	-	-	-	-	-	-	-	3	2	3	1	1
CO5	3	3	3	2	-	-	-	-	-	-	-	3		3		1

1: Slight (Low), 2: Moderate (Medium), 3: Substantial (High)

COURSE ATTAINMENTS

Attainment Level	
Level 3	58% students scoring more than or equal to **40 %** of marks
Level 2	48 % students scoring more than or equal to **40 %** of marks
Level 1	38% students scoring more than or equal to **40 %** of marks

Type of Question	**Descriptive**				**Objective**	**Assignment**	
Question wise Marks	**Q1 (5 M)**	**Q2 (5M)**	**Q3 (5 M)**	**Q4 (5M)**	**4M, 4M, 2M**	**5 M**	**Total**
Course Outcomes	**CO1**	**CO2**	**CO2**	**CO2**	**CO1,CO2, CO3**	**CO1**	
16QM1A0401		1	5		4	5	15
16QM1A0402		1	5		4	5	15
16QM1A0404		3	4		4	5	16
16QM1A0406	4		3		3	5	15
16QM1A0407	4		4		3	5	16
16QM1A0409			4	4	2	5	15
16QM1A0410	5	4			6	5	20
16QM1A0412			2	3	4	5	14
16QM1A0414	5		4		3	5	17
16QM1A0415	4		3		6	5	18

16QM1A0416		4	4		5	5	18
16QM1A0418	4		3		4	5	16
16QM1A0419	5			3	5	5	18
16QM1A0420			4	3	6	5	18
16QM1A0421	5		4		7	5	21
16QM1A0422	3			4	6	5	18
16QM1A0425	4	4			4	5	17
16QM1A0426	5			3	3	5	16
16QM1A0427		2	4		4	5	15
16QM1A0428	3		3		5	5	16
16QM1A0429	5	3			4	5	17
16QM1A0431	3	0	3		5	5	16
16QM1A0432	3		3		4	5	15
16QM1A0433		4		4	4	5	17
16QM1A0434	5		5		6	5	21
16QM1A0435	3		2		5	5	15
16QM1A0436	2		3	4	5	5	17
16QM1A0438			5	4	6	5	20
16QM1A0439		2		5	8	5	20
16QM1A0441	5			5	7	5	22
16QM1A0442	5			2	4	5	16
40% Marks (Threshold Level)	**2**	**2**	**2**	**2**	**4**	**2**	
No of Students Attempted the Question (X)	20	12	21	12	31	31	
Number of Students >=40% Marks (Y)	**20**	8	21	12	26	31	
Percentage of Students attaining >=40% Marks **(Y/X*100)**	100%	66.66%	100%	100%	83.87%	100%	
Level	**3**	**3**	**3**	**3**	**3**	**3**	
CO1 Attainment	**5*3/14**				**4*3/14**	**5*3/14**	**3**
CO2 Attainment		**5*3/19**	**5*3/19**	**5*3/19**	**4*3/19**		**3**
CO3 Attainment					**2*3/2**		**3**

Calculation Formula for Course Attainment

Course Outcome Attainment = [(Question1 marks*Attainment) + (Question2 marks*Attainment) +……]

Total marks allotted for that Course Outcome

Gap Analysis:

Cos	Attainment Percentage	Target	Target in Level	Attainment in Level	Gap= Attainment in Level- Target in Level
CO1	94.56%	58%	3	3	0
CO2	87.6%	58%	3	3	0
CO3	83.87%	58%	3	3	0

Action Taken Report:

COs	Action Report
CO1	Attained
CO2	Attained
CO3	Attained

2.2.3 Quality of Student Projects (25).

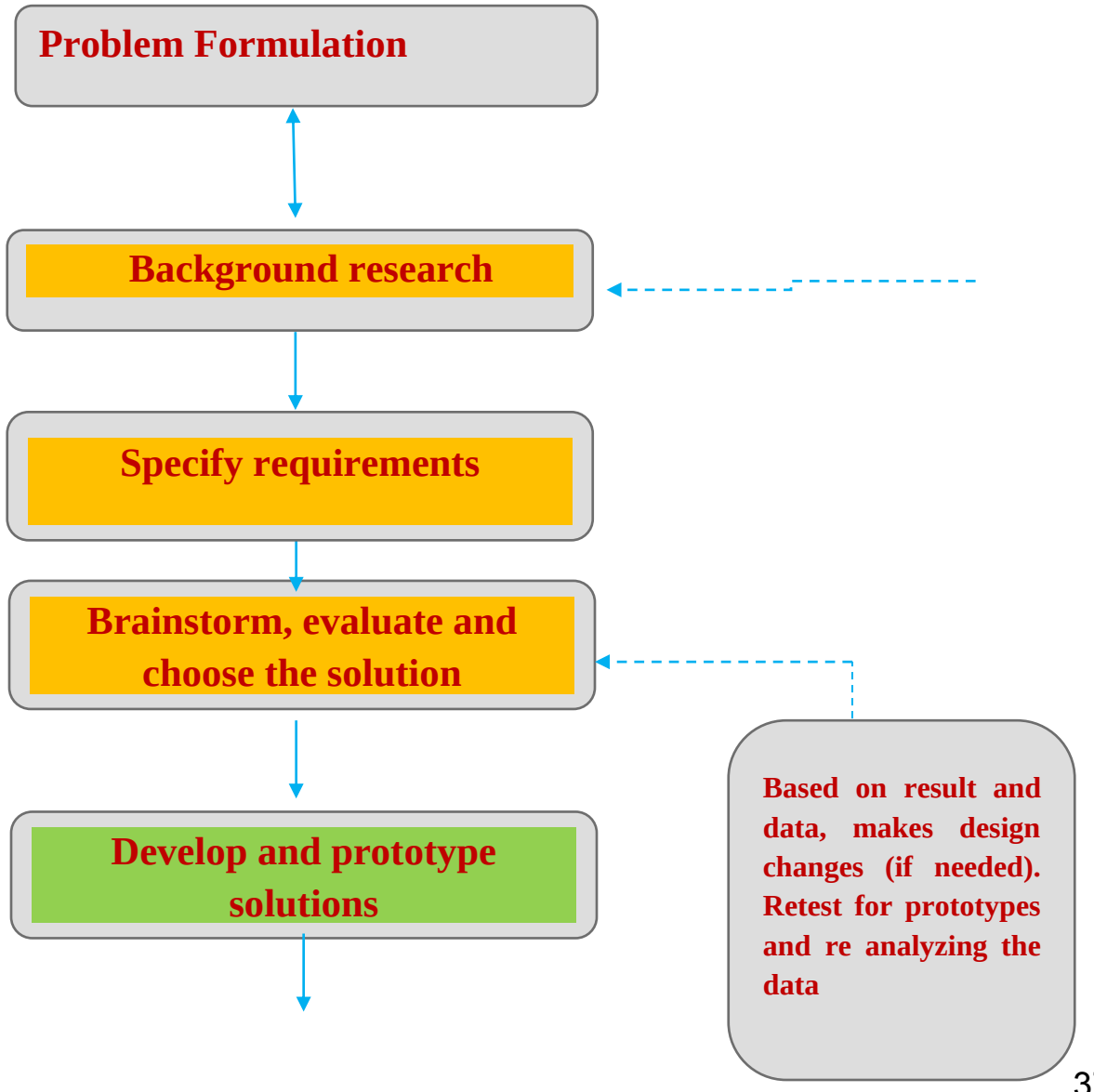
Process for allocation of Student projects:

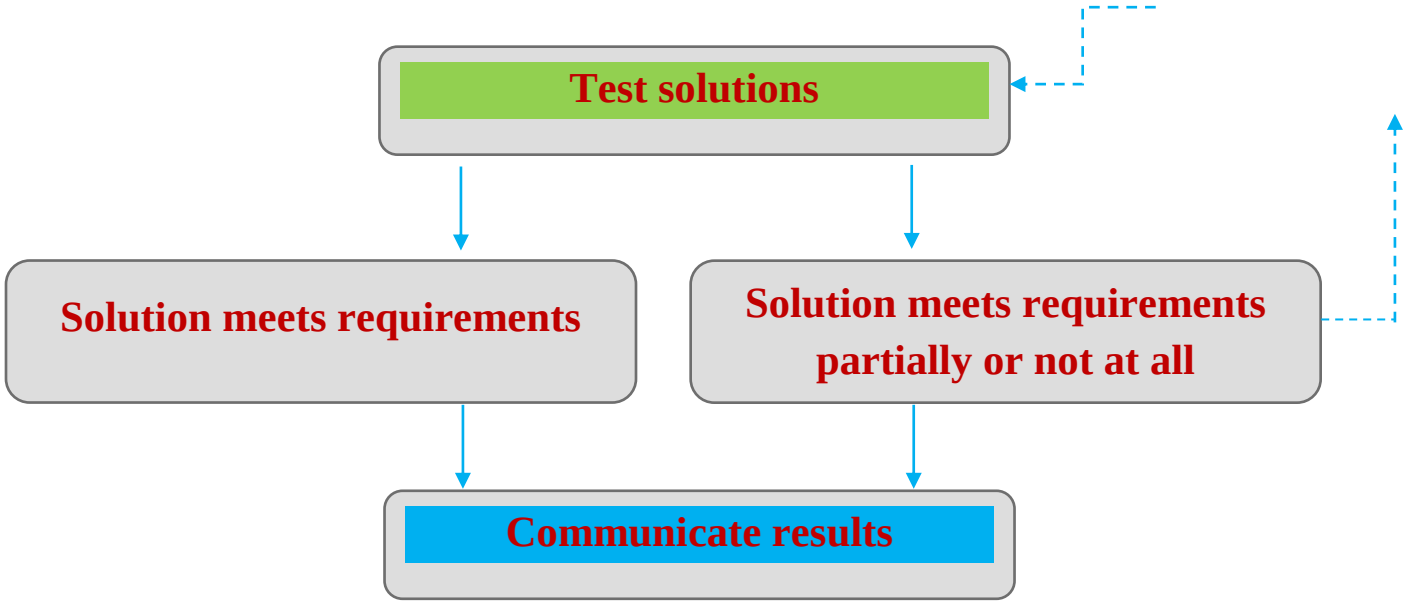
1. A notification shall be issued to all final year students at the start of IV-year II semester to submit the area of interest for the selection of main Project Work.
2. Formation of students group should be done where each group comprises of 3-5 students.
3. The areas of interest are selected based on various domains focused on recent trends of engineering science and Technology.
4. The guide shall be allotted based on domain chosen by students.
5. The implementation of the Project Design can be done in 5 Stages
    - Problem formulation
    - Problem solving
    - Design/coding
    - Communicating results
    - Reflections
6. Each Stage is divided in to Sub-categories by creating rubrics for assessing the projects.
7. In the initial stage of Problem formulation students have to come up with Problem Statement.
8. An initial review will be conducted on the selection of the project and problem formulation.
9. From the review considerations the groups start-up the Project work with the next stage of Engineering design process.
10. In the second stage students start working on problem solving by literature survey,

Specification and Data analysis.

11. In the third stage students start implementing the Design process like Building/coding, Testing and Iteration.
12. Next stage is communication of results with Oral Presentation and Documentation.
13. At the end student reflections are observed which help them to improve on future performance by analyzing what they have learned Reflections
14. All these stages will be reviewed by Project Review Committee (PRC).The Project internal evaluation shall be done by conducting Reviews by the PRC consisting of Head of the Department, Project coordinator, concerned guide and two senior faculty members from the department.
15. The projects are converted into prototype. Projects are extended with new ideas and pursued as a new proposal.
16. While designing the project safeties are considered in High voltage sources and rotatable modules like motors to avoid any shock/hurt like harm to human by using safety techniques.

Projects Evaluation Framework





Department of Electronics and Communications Engineering

Academic Year: 2019-20 Semester: I

Project Review Committee (PRC)

S. No	Name of faculty	Designation	Position
1	Dr. Anil N Rakhonde	HOD	Chairman
2	Dr. B Vandana	Assistant professor	Coordinator
3	Dr. D Chandra Prakash	Associate professor	Member
4	Mr. Bavusaheb B. K	Assistant professor	Member
6	Mrs. Gayatri Tangirala	Assistant professor	Member
7	Mr. Angotu Saida	Assistant professor	Member
8	Mrs. Pagadala Usha	Assistant professor	Member

Coordinator **Chairman**

Parameters for selecting the quality of project:

Methodology:

The quality of project is measured in terms of factors including safety, environment, ethics, cost and type of the project. The best project evaluation method is as follows.

S. No.	Factors Considered
1.	Application to Society
2.	Idea and Innovation
3.	Cost Factor

4.	Type of The Project
5.	Awareness of Standards
6.	Awareness of Ethics
7.	Safety Factor

Department of Electronics and Communication Engineering

IV B. TECH, SEM II **AY 2019-2020**

Major Project Schedule

S. No.	Project Phase to be Completed	Last Date
1	Submission of project abstracts and getting confirmation of project titles by the supervisors	04/1/2020 (Saturday)
2	Project Review1: (Problem Formation)	10/1/2020 (Saturday)
3	Project Review2: (Problem Solving**)**	20/01/2020(Friday)
4	Project Review3: (Design / Coding **)**	21/02/2020 (Friday)
5	Final Review (Communicating Results**)**	06/03/2020 (Saturday)
6	Documentation & Reflections	16/03/2020 (Monday)
7	Viva-voice (Mock)	23/05/2020 (Saturday)
8	Final Viva-voice	25/05/2020 (Monday)

Department of Electronics and Communication Engineering

IV B. TECH, SEM II **AY 2019-2020**

Major Project Batch List

Batch no:	Roll No	Name of the Student	Topic	Internal guide	Relevance to Pos & PSOs
1	16QM1A0438	Talakanti Madhuri	IoT based smart garbage monitoring using zigbee	Mr. Vikram S Kamadal	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0434	Rangareddy Sahithi			
	16QM1A0428	Panganuru Naresh Phokran			
	16QM1A0442	Vootkuri Sudhir Goud			
2	16QM1A0419	Kothapalli Srikanth Reddy	Smart agriculture using IoT	Ms. Deepika Ainapur	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0436	Sarvigari Yeshwanth Simha Reddy			
	16QM1A0441	Tota Narendra			
	16QM1A0429	Pantham Keerthi			
3	16QM1A0439	Tanishq Choudhary	Border security		PO1, PO2, PO3, PO5,

	16QM1A0421	M Manikanta Reddy	smart robot using IoT	Mr. Angotu Saida	PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0426	P Samara Simha Reddy			
4	16QM1A0404	Cheguri Sai Teja	Accident identification based alerting location over GPS and GSM	Mr. Vijaya Bhasker Reddy	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0418	Konijeti Venkatesh			
	17615A0401	K Bharath Kumar			
	16QM1A0402	Buyyaker Tarun Kumar			
5	16QM1A0409	Gavvala Pavan Kumar	Homosapiens invincibility	Ms. Pagadala Usha	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0412	Gayathri Padma Kumari			
	16QM1A0432	Rajput Aditya Singh			
6	16QM1A0406	Didde Mercy Niharika	GSM based LCD notice board with voice announcement	Mr. Md Asif	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0407	Gajjala Charitha Reddy			
	16QM1A0414	K Srividhya			
7	16QM1A0420	Venkata Sai Chaitanya	Advance military operation robot	Mr. Tejashwara kumar	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0427	Palnati Chaitanya			
	16QM1A0431	R Simran			
8	16QM1A0415	Kailasa Priyanka	IoT home automation with blu-fi technology based on MQQT and WiFi sensor nodes	Dr. D Chandra Prakash	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	16QM1A0416	Kakulapati Sesha Srivalli			
	16QM1A0425	M. Bhuvana Satya Sai			
9	16QM1A0401	Balusani Manoj Kumar	Dog breed identification using CNN	Mr. Arpit Yadav	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
	16QM1A0433	Ramaiah Supriya			
	16611A0402	Karri Navajyothi Krishna			
10	16QM1A0410	Gongati Rashmitha	Movable road divider	Dr B Vandana	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	16QM1A0422	Macha Bhavana			
	16QM1A0435	S Sai Srivasthava Naidu			

Department of Electronics and Communications Engineering

Academic Year: 2018-19 Semester: I

Project Review Committee (PRC)

S. No	Name of faculty	Designation	Position	Signature
1.	Dr Manish join	HOD	Chairman	
2.	Dr B Vandana	Associate professor	Coordinator	
3.	Mr. M.N.Narsaiah	Assistant professor	Member	
4.	Mr, A, Vijaya Bhasker Reddy	Assistant professor	Member	
5.	Mrs. Gayatri Tangirala	Assistant professor	Member	
6.	Mr. Angotu Saida	Assistant professor	Member	
7.	Mrs.Pagadala Usha	Assistant professor	Member	
9.	Mrs.P.Spandana	Assistant professor	Member	
10	Mr .Md Asif	Assistant professor	Member	

Parameters for selecting the quality of project:

Methodology:

The quality of project is measured in terms of factors including safety, environment, ethics, cost and type of the project. The best project evaluation method is as follows.

S. No.	Factors Considered
1.	Application To Society
2.	Idea And Innovation
3.	Cost Factor
4.	Type Of The Project
5.	Awareness Of Standards
6.	Awareness Of Ethics
7.	Safety Factor

B. Tech Major Project Schedule for the Academic Year 2018-19

S. No.	Project Phase to be Completed	Last Date
1	Submission of Project abstracts and getting confirmation of projects titles by the students	05/1/2019 (Saturday)
2	Project Review1: (Student should be in a Position to explain the overview of the project)	18/01/2019(Friday)
2	Project Review2: (Student should be in a Position to explain 70% of the project)	15/02/2019 (Friday)
3	Final Review (Student should be in a position to execute the project and should show the result of the Project)	08/03/2019 (Friday)
4	Documentation(documentation should be submitted in the department)	29/03/2019 (Monday)
5	Viva-voice (Mock)	---------- (Wednesday)

Department of Electronics and Communication Engineering

IV B. TECH, SEM II **MAJOR PROJECTS A-Section** AY 2018-2019

S/N	Roll No	Name of the Student	Name of the project title	Name of the Guide	**Relevance to POs & PSOs**
1	15QM1A0401	A Dikshith Rao	M-BOT	Mrs. T. Gayatri	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0416	Esampally Prasadgoud			
	15QM1A0415	Deep Sagar Reddy			
	15QM1A0417	G Naveen Kumar Reddy			
2	15QM1A0407	Bajjuri Baby	Digital door lock system using Arduino and IoT based home automation and home security	Mr. A. Saida	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0419	Garugu Venkatesh			
	15QM1A0424	Guntur Harika			
	15QM1A0452	Nalla Veda Sree			
3	15QM1A0410	Chadivae Bhavana	Automatic speed control in vehicle for valley edge curvature using RF	Dr. Manish Jain	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0418	Gade Mary Sushma			
	15QM1A0443	Maram Manoj Reddy			
	15QM1A0436	K.Roja			
4	15QM1A0405	Avusula Mounika	Knowledge based real time monitoring of aqua culture	Mr. Narsaiah	PO1, PO2, PO3, PO5, PO8, PO11, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0408	Banda Nikitha Reddy			
	15QM1A0435	K.Aishwarya			
	15QM1A0414	D Abhilash Goud			
5	15QM1A0431	Kancharla Subba Reddy	Implementation of Safe Heart to monitor the patient Condition	Mrs. Spandana	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0420	Gavara Naga Lakshmi Priyanka			
	15QM1A0427	Jyothirmay Barua			
6	15QM1A0422	Gottapu Geetha Sphoorthi	Implementation of automobile tempo-restrain	Mr. Ramesh	PO1, PO2, PO3, PO9, PO10, PO12. PSO1, PSO2, PSO3, PSO4
	15QM1A0413	Chinthakindi Pushpaleela			
	15QM1A0425	Jillela Chandra Shekar Reddy			
7	15QM1A0423	Gudipudi Sowjanya	Intelligent system for coal mines using GSM	Mr. Vijay Baskar Reddy	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	15QM1A0409	Budde Ravali			
	15QM1A0447	G.Vishwanath			
	15QM1A0421	Gillala Praveen Kumar			
8	15QM1A0426	Jyesta Poojitha	Smart helmet	Mr. K. Bavusheb	PO1, PO2, PO3, PO5, PO7, PO8, PO12. PSO1,
	15QM1A0434	Kommineni Harindranath			

	15QM1A0412	Chintakindi Sriharshan Reddy			PSO3, PSO4
9	15QM1A0438	Kuchuru Sravani	Biometric voting machine	Mr. Chandraprakash	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0432	Kodithyala Karthik			
	15QM1A0433	Kommidi Vishnu Vardhan Reddy			
	15QM1A0442	Mannem Sreeja			
10	15QM1A0430	Kammari Shravani	Arduino based smart irrigation system using GSM	Mrs. Spandana	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0445	Musku Samyuktha			
	15QM1A0441	Mankala Naveen Raj			
	15QM1A0406	Bachu Venkata Sai Divya			
11	15QM1A0437	Kondreddy Jyothi	Design and development of sign language for deaf and dump	Mr. K. Bavusheb	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0449	Mushti Sri Krishna			
	15QM1A0428	K Nandu Kumar Reddy			
	15QM1A0429	K Vinay Chary			
12	15QM1A0440	Manchirevula Harishwar	Hi-tech electricity bill generator using IOT	Dr. Manish Jain	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3
	15QM1A0439	Lakkireddy Navya			
	15QM1A0451	N.Swapnashri			
	15QM1A0450	Nagarala Nithish Reddy			

Department of Electronics and Communication Engineering

IV B. TECH, SEM II **MAJOR PROJECTS B-Section** AY 2018-2019

S/N	Roll No	Name of the Student	Name of the project title	Name of the Guide	**Relevance to POs & PSOs**
1	15QM1A0459	Parimini Mounika	Green house monitoring and controlling systems using IOT.	Mr. M.N. Narsaiah	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0477	Tutturu Vikram			
	15QM1A0467	Santhosh Sagar			
	14QM1A0429	M Anirudh			
2	14QM1A0406	A Vamshi Krishna	Alcohol and drivers drowsy condition detection in vehicles	Mr. K. Nagaiah	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0457	Nimmala Jayanth			
	15QM1A0460	Peddolla Divya			
	15QM1A0462	Pulmamidi Srivani			
3	15QM1A0455	Nelli Nikhitha	Bank locker security system using biometric and dual password	Mr.Vijay Bhaskar Reddy	PO1, PO2, PO3, PO5, PO8, PO11, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0463	Ganesh			
	15QM1A0465	Sonia			
	15QM1A0474	Thippani Manikumar Reddy			
4	16QM5A0403	Dhawale Sumedha	Tele come network environment monitoring using rasp berry pi.	Mr. Md. Asif	PO1, PO2, PO3, PO5, PO9, PO10, PO12.
	16QM5A0412	Rayili Abhilash			
	16QM5A0411	Phanender Kumar			

		Duddu			PSO1, PSO3, PSO4
	16QM5A0414	S Bhargavi			
5	16QM5A0408	Kuthuru Shivashankar	Smart LPG monitoring and automatic booking system.	Mrs.C.Deepika	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	15QM1A0479	Vadapelly Sai			
	14QM1A0435	Muthangi Praveen Kumar			
	16QM5A0405	Kashi Upendhar Reddy			
6	15QM1A0488	Yelma Sai Charan Reddy	Automatic ATM security system using IOT.	Mr. D. Chandraprakash	PO1, PO2, PO3, PO5, PO7, PO8, PO12. PSO1, PSO3, PSO4
	16QM5A0413	Sodanolla Manisha			
	15QM1A0480	Vadla Srihari			
	15QM1A0472	Sutravae Divya			
	15QM1A0478	V Athira			
7	15QM1A0468	Sappa Sandhya	Implementation of wireless electronics notice board.	Dr. B. Vandana	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0456	Nikhil Shinde			
	15QM1A0473	Thakur Roushni Singh			
	15QM1A0481	Varakala Vamshi			
8	15QM1A0476	Turpu Sravanthi	Monitoring and controlling of vehicle with an accident alert using GSM.	Mr. D. Jagan	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0484	Vemula Swapna			
	15QM1A0475	Thumala Surekha			
	15QM1A0466	Rathikanti Vamshi Krishna			
9	16QM5A0406	Katkuri Kavya	Autonomous farming ROBOT using Zig - bee	Mr. A..Saida	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO12. PSO1, PSO3, PSO4
	16QM5A0401	Arrachi Swapna			
	15QM1A0482	Veera Reddy Arun Reddy			
	16QM5A0404	Kanchami Uday Kumar			
10	15QM1A0485	Wrayathi Bharat Raj	Automatic vehicle challan detection system using rasp berry pi for accessing fuel at petrol pumps.	Mr. K. Bavusheb	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	15QM1A0483	Vempa Sri Naga Vineetha			
	15QM1A0469	Sathigari Narotham Reddy			
	15QM1A0453	Nara Sumanth			

S. No	Name of faculty	Designation	Position
1.	Mr. M.N.Narsaiah	HOD	Chairman
2.	Mrs.Pagadala Usha	Assistant professor	Coordinator
3.	Dr. Manish join	Associate professor	Member
4.	Mrs. Gayatri Tangirala	Assistant professor	Member
5.	Mr. Angotu Saida	Assistant professor	Member
6.	Mr. Md Asif	Assistant professor	Member
7.	Mrs.A.Deepika	Assistant professor	Member
8.	Mrs.P.Spandana	Assistant professor	Member

Parameters for selecting the quality of project:

Methodology:

The quality of project is measured in terms of factors including safety, environment, ethics, cost and type of the project. The best project evaluation method is as follows.

S. No.	Factors Considered
1.	Application To Society
2.	Idea And Innovation
3.	Cost Factor
4.	Type Of The Project
5.	Awareness Of Standards
6.	Awareness Of Ethics
7.	Safety Factor

B. Tech Major Project Schedule for the Academic Year 2017-18

S. No.	Project Phase to be Completed	Last Date
1	Submission of Project abstracts and getting confirmation of projects titles by the students	19/01/2018(Thursday)
2	Project Review1: (Student should be in a Position to explain the overview of the project)	20/01/2018(Saturday)
3	Project Review2: (Student should be in a Position to explain 70% of the project)	15/02/2018(Thursday)
4	Final Review (Student should be in a position to execute the project and should show the result of the Project)	01/03/2018 (Thursday)

5	Documentation(documentation should be submitted in the department)	08/03/2018 (Thursday)
6	Viva-voice (Mock)	22/03/2018 (Thursday)

Department of Electronics and Communication Engineering

IV B. TECH, SEM II **MAJOR PROJECTS** AY 2017-2018

Batch No	Roll No.	Name of the Student	Title	Guide name	Relevance to POs & PSOs
1	14QM1A0438	PATI NAVYA REDDY	Automatic detection of potholes and tire pressure measurement	Mr. A. Ravichandra	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0412	CHILUMULA VAMSHI KUMAR			
	13QM1A0432	M. AVINASH YADAV			
2	14QM1A0411	CHENNALA BHAVANI	Voice controlled electronic wheel chair with patient monitoring system	Mrs. T.GAYATHRI	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0428	L MAYUR			
	14QM1A0444	SHUVRANIL DEBROY			
3	14QM1A0408	BANDALAKUNTA PAVAN KUMAR REDDY	THEFT PREVENTION SYSTEM USING RASPBERRY PI AND PIR SENSOR	Mr. M.N.NARSAIAH	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0401	AAVULA BHAGYA RAJ			
	14QM1A0440	PENDLIMADUGU TIRUPATHI REDDY			
	13QF1A0416	U M CHARAN TEJA			
4	14QM1A0409	BONASI GANGI REDDY	SPEAKING SYSTEM FOR BLIND PEOPLE USING HAND GESTURES	Mr A.VIJAY BASKAR REDDY	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0416	DUNUKU SAI KRISHNA			
	14QM1A0436	NAGARAM VIJAY			
5	15QM1A0403	VADLA PRAVEEN	Accident detection and ambulance rescue system	Mr B.K. BAVU SAHEB	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0419	GOLLAPALLI LOKESWAR REDDY			
	14QM1A0413	D E SHADRACH			
6	14QM1A0420	GOURAGARI VIKRAM REDDY	SELF FUEL FILLING USING RASPBERRY PI	Mrs Tayyabunnissa Begum	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3,
	14QM1A0415	DUMPALLA SUSHEEL MUDIRAJ			
	14QM1A0414	DADE SAI SUJAN			

	14QM1A0445	TUGGALI KISHORE			PSO4.
7	14QM1A0402	AERVA PRAVALIKA	Measurement of RF power for EMI and EMC applications	C.DEEPIKA	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0439	PATLOLLA SREENATH REDDY			
	13QM1A0457	RANA VIKRANTH SINGH RATHOD			
8	14QM1A0427	KUNNATH SANGEETHA	Smart Parking System	MD.ASIF	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0426	KOTHAKAPU LAXMIKANTH REDDY			
	14QM1A0405	ARDHA PRASHANTH REDDY			
	14QM1A0407	AVUSULA PRANAY CHARY			
9	14QM1A0431	MAHALAXMI INDU	IOT Electronic door opening with live video feed	A. DEEPIKA	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0470	SUDHIR KUMAR			
	14QM1A0443	RANJIT NAYAK			
10	14QM1A0432	MIRGINKA SHEKHAR DAS	Wearable jacket for children's and patient to monitor there activity	P. Ramesh	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0433	MOGILIGIDDA PRASHANTH REDDY			
	15QM5A0404	VADLA SHIVA KUMAR			
11	14QM1A0430	MADHAMANCHI NAGAVAMSI	SWARM ROBOTIC USING BLUETOOTH	K.USHA	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0437	PABBA SHIVA PRASAD			
	15QM5A0401	MOHAMMAD SHABUDDIN			
12	14QM1A0423	JELLAPALLY KEERTHI	Bomb detection and dismantle using robot	P.SPANDANA	PO1, PO2, PO3, PO5,PO6, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	13QM1A0474	V VENKATA PAVAN KUMAR			
	14QM1A0424	KAVALI MAHESH			
13	14QM1A0404	APARAPA MOUNIKA	ONE DEVICE HOME AUTOMATION WITH ANDROID APPLICATION USING NODEMCU	SUHANA PARVEEN	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	14QM1A0422	JAKKAREDDY PRASHANTH REDDY			
	12QM1A0423	K RAKESH			

RUBRICS FOR PROJECTS EVALUATION

Stages	Criteria	Advanced (4)	Proficient (3)	Developing (2)	Novice (1)
PROBLEM FORMATION	**Problem Statement (4M)**	Complete understanding of the problem; the problem statement is well written.	Better understanding of the problem; the problem statement is clearly written.	Minimal understanding of the identified problem and domain knowledge is less.	No understanding of the problem; The problem statement is not provided or if provided, it may be unclear.
PROBLEM SOLVING (6M)	**Background Research & Idea Generation (2M)**	Background information on the problem includes narrative with references of general professional or research literature. The students are clear with purpose, scope and objectives of the identified problem and its domain.	Background information on the problem includes narrative with some references of general professional or research literature. The students are clear with purpose, scope and objectives of the identified problem and its domain.	Background information on the problem includes narrative but no references of general professional or research literature. Purpose and scope still need to be improved. Objective s looks very vague.	Background information on the problem is not provided the purpose and scope of the work are relating to the statement problem statement.
	Specifications & Constraints (2M)	Describe in clear, unambiguous terms the functional requirements of the system. Provide a sufficient level of detail for designers to design a system satisfying these requirements and testers to verify that the system satisfies requirements.	Describe in clear, unambiguous terms the functional requirements of the system. Provide a sufficient level of detail for designers to design a system satisfying these requirements and testers to verify that the system satisfies requirements	Describe in clear, unambiguous terms the functional requirements of the system. Provide a sufficient level of detail for designers to design a system satisfying these requirements and testers to verify that the system satisfies requirements.	Very few functional requirements are identified and use cases are not written with descriptions.
	Data Analysis (2M)	The relationship between the variables is discussed and logically analyzed.	The relationship between the variables is discussed and logically analyzed, no further predictions are made.	The relationship between the variables is discussed but not logically analyzed, no further predictions are made.	The relationship between the variables is not discussed & Presented
DESIGN / CODING	**Building / Coding (2M)**	Analytical and/or physical models fully found the entire design	Analytical and/or physical models found most design subsystems	Analytical and/or physical models found on few design subsystems	No analytical and/or physical models developed of the design
	Testing (2M)	Testing and analysis plan used as an overarching guide	Testing and analysis plan present but only followed loosely	Testing and analysis plan present but not referenced	No testing plan or analysis plan has been generated

	Iterations (2M)	Students complete their project, having improved the design over time	Students undertakes 1 or more iterations of their project, improving the design	Students attempts to make an iteration on the design of the project, but is unsuccessful in any improvement	Students do not attempt to iterate or make any changes on their initial
COMMUNICATING RESULTS (6M)	**Oral Presentation (4M)**	Well organized, Proper subject knowledge, usage of graphics, proper eye contact, and great Elocution.	Well organized, Proper subject knowledge, usage of graphics, proper eye contact, but speech is not clear	Well organized, Proper subject knowledge, no usage of graphics, no proper eye contact, but speech is not clear	Not well organized and unclear presentation
	Report Submission (2M)	Solution presented concisely with clarity and accuracy. Extensive supporting evidence on how the solution meets the task criteria.	Solution presented accurately. Some supporting evidence on how the solution meets the task criteria need to be improved	Solution presented with limited accuracy. Limited supporting evidence on how the solution meets the task criteria.	Not well organized and the guidelines are not followed
DOCUMENTATION (3M)	**Use of Engineering Design Process (2M)**	Make connections among all the stages of engineering design process to connect theory and real experiences. Well-articulated the impact of the process in developing skills	Make connections among all the stages of engineering design process to connect theory and real experiences. Articulation of the impact of the process in developing skills is nor done	All the stages are not effectively utilized. Articulation of the impact of the process in developing skills is nor done	No articulation of the self-involvement, no impact of Engineering design process on personal growth
	Self-Improvement (1M)	Demonstrates through and penetrating understanding of key concepts, exhibits copious evidence of attainment of skills	Demonstrates a adequate understanding of key concepts, exhibits adequate evidence of attainment of skills	Demonstrates a partial understanding of key concepts, exhibits some evidence of attainment of skills	Demonstrates a little understanding of key concepts, exhibits minimal evidence of attainment the skills

List of Best Projects:

The following projects are identified as best projects recommended by Project Review Committee (PRC).

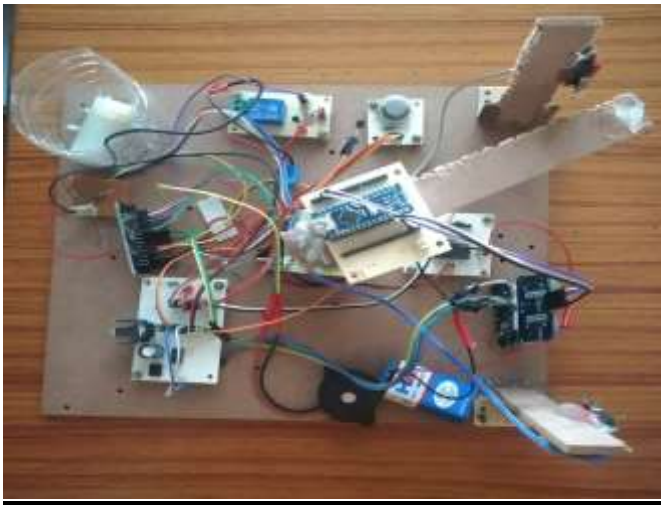
Academic Year	**Title of the Project**	**Problem Formation (4/8M)**	**Problem Solving (6/12M)**	**Design / Coding (6/12M)**	**Communicating Results (6/12M)**	**Documentation (3/6M)**	**Total Marks**	**PO's, PSO's Mapping**

2019-2020	1. Dog Breed Identification Using CNN	4	6	6	6	3	25	PO1, PO2, PO3, PO5, PO12. PSO1, PSO3.
	2. IOT Home Automation With Blu-Fi Technology Based On MQQT and Wi-Fi Sensor Nodes	4	6	5	6	3	24	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	3. Movable Road Divider	4	6	6	5	3	24	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	4. Border Security Smart Robot Using IOT	4	6	5	6	3	24	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
2018-2019	1. Smart Helmet	8	12	10	12	6	47	PO1, PO2, PO3, PO5, PO7, PO8, PO12. PSO1, PSO3, PSO4
	2. M-BOT	8	10	12	12	6	48	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	3. Implementation of Safe Heart to monitor the patient Condition	7	12	12	11	6	48	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4
	4. Intelligent system for Coal Mines Using GSM.	8	12	11	12	5	48	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
2017-2018	1. Voice controlled electronic wheel chair with patient monitoring system	7	11	11	12	5	46	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	2. Speaking	7	12	12	11	6	48	PO1, PO2, PO3,

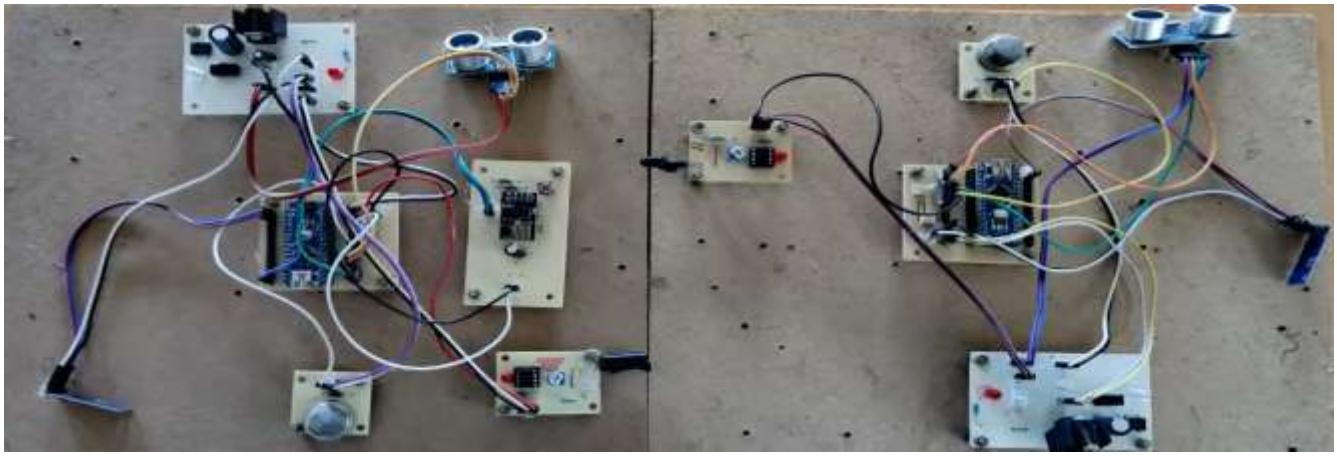
	System For Blind People Using Hand Gestures							PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	3. Wearable jacket for children's and patient to monitor their activity	8	10	12	11	6	47	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
	4. Accident detection and ambulance rescue system	8	12	11	11	6	48	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.

Student Projects-Working Prototypes 2019-20

Automatic irrigation soil moisture content control MATLAB

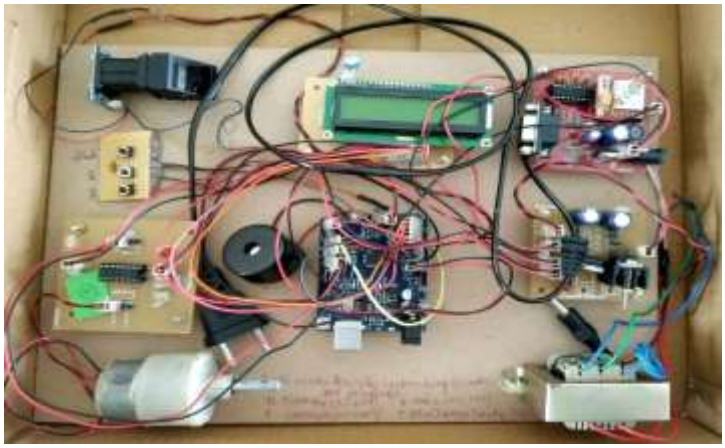


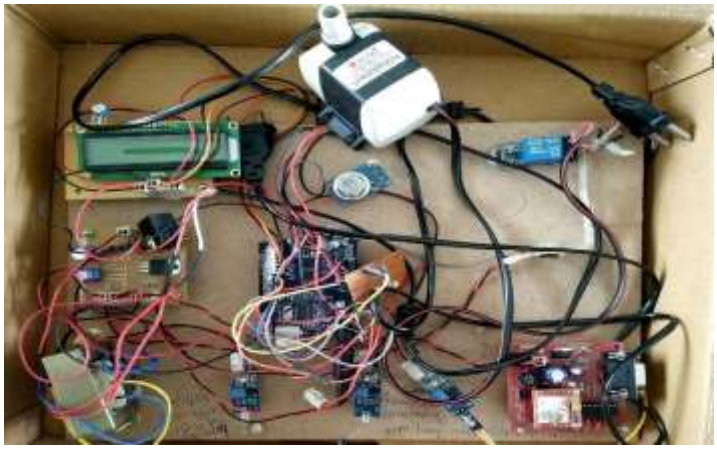
Border Security Smart Robot using IOT and



Smart Garbage Monitoring using IOT and Node MCU

Student Projects-Working Prototypes 2018-19

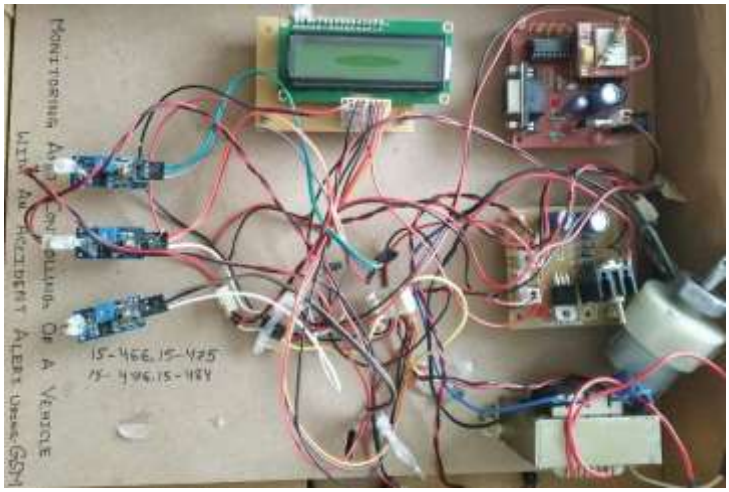




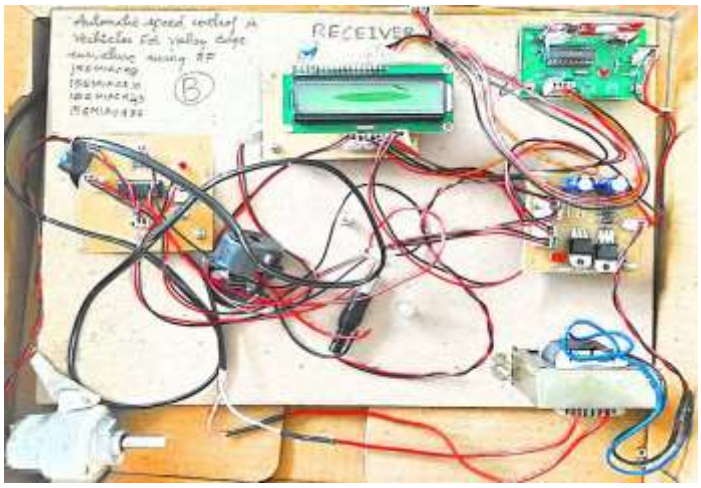
Bank Locker Security System using Biometric and password

Greenhouse Monitoring and Control Using IoT

Student Projects-Working Prototypes 2017-18



Accident Monitoring and control of vehicle using GSM



Automatic speed control in Vehicle using RF

Voice Controlled Electronic Wheel Chair

2.2.4. A. Industry supported laboratories

S. No.	Lab Name	Details	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs /PSOs
1	IOT Maker Space	PCB Design Unit, 3D Printer, Soldering/ De-soldering, PCs.	Students are developing prototypes of projects using Pi boards.	IOT, Embedded, Robotics.	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4

2.2.4. B. Industry involvement in the program design and partial delivery of any regular courses for students

The Department Advisory Board (DAB) is constituted with industry experts, professors from premier universities, Alumini, parents and senior faculty members of the department. DAB advised to incorporate different activities through industry collaboration such as seminars, workshops, guest lectures, industrial visits, and industrial interaction, after collecting the points discussed in various committees of the department such as Program Assessment Committee (PAC), Department Development Committee (DDC), Project Review committee (PRC) and Finance Committee (FC).

S. No.	Name of the Programme	From Date	To Date	Resource Person
1	Workshop on Robotics	25-Mar-19	29-Mar-19	Mr. Mahipal, Data Point Info Solutions
2	Two-Day workshop on Personality Development	18-Mar-19	19-Mar-19	Dr. Vivek Modi, Mr. K. Rama Krishna
3	A 3- Day Workshop on "Oracle Database Design & Programming with SQL	06-Mar-19	08-Mar-19	Mr. P. Arun Reddy, Technical Trainer, TASK
4	Massive Open Online Courses (MOOC's) on Aptitude and Reasoning	08-Nov-18	08-Nov-18	Ms. Durga Devi, Technical Trainer, TASK
5	Oracle Java Fundamentals	29-Oct-18	02-Nov-18	Mr. P. Arun Reddy, Technical Trainer, TASK
6	Oracle Database Programming with SQL	22-Oct-18	24-Oct-18	Mr. P. Vamshidhar Reddy, Senior Trainer, TASK
7	Mobile Making	03-Oct-18	04-Oct-18	Mr. Yogesh Chavan, Senior Design Engineer at Indian Tech Group
8	IBC-HACK 2018	10-Jul-18	10-Jul-18	IDEA Labs

Training Programs/Workshop Offered in Academic Year 2019-20

S. No.	Name of the Programme	From Date	To Date	Resource Person
1	IOT and Idea to Product	02-Nov-19	02-Nov-19	Mr. G. Krishna, CEO – Next Byte Innovations
2	Java oracle fundamentals	29-Oct-19	02-Nov-19	Mr. K. Ramesh, Senior Technical Trainer, TASK
3	VLSI	06-Sep-19	06-Sep-19	Mr. P R Siva Kumar, CEO Maven Silicon

Training Programs/Workshop Offered in Academic Year 2018-19

S. No.	Name of the Programme	From Date	To Date	Resource Person
1	Workshop on Robotics	25-Mar-19	29-Mar-19	Mr. Mahipal, Data Point Info Solutions
2	Two-Day workshop on Personality Development	18-Mar-19	19-Mar-19	Dr. Vivek Modi, Mr. K. Rama Krishna
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8	IBC-HACK 2018	10-Jul-18	10-Jul-18	IDEA Labs

S. No.	Name of the Programme	From Date	To Date	Resource Person
1	A 2-Day Workshop on Internet of Things	08-Aug-17	09-Aug-17	Ms. Pradeephi, Mr. Abhishek, Makers Space

Training Programs/ Workshop Offered in Academic Year 2017-18

2.2.4. C Impact analysis of industry institute interaction and actions taken thereof

- It helped students to get vocational training in industries during vacation.
- The effectiveness of this practice can be gauged by the great response of the participants of the workshops.
- Students picked up what they learnt at the workshops to implement their own mini project and also final year projects.
- Students gained from this exposure to incorporate an entrepreneurial spirit and project based thinking

Impact analysis of industry institute interaction and actions taken

KG Reddy College of Engineering & Technology

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Feedback Analysis and Action taken Report
On
A Three Day Workshop on Oracle Database Programming with SQL

Date: 27-10-2018

Feedback Analysis								
Sl.No	1	2	3	4	5	6	7	8
Excellent	8	6	16	10	13	14	5	8
Very good	23	29	17	19	18	22	25	20
Good	6	2	4	8	6	1	5	8
Average	1	1	1	1	1	1	3	2
Poor								

After the workshop feedback is collected from the students, most of the topics relevant to the participants and objectives of the workshop is clearly defined, the contents are organised well before for every session. Few of the students asked to organise this kind of workshops for more days. The students who do not have fundamental knowledge about the subject of content also enjoyed the workshop.

H.O.D

HEAD
DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING
K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
CHILKUR (V), MOINABAD, R.R. DIST.501 504

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

2.2.5-A. Initiatives related to industry interaction

The department of Electronics and Communication Engineering entered interaction/MOU with the following industries

S. No	Name of the MOU Industry
1	Data point Solutions
2	Sulakshana circuits ltd
3	Uptec idea labs
4	Armtronics
5	Technolexis

Unique features/key accomplishments of partnerships established with industry:

- Establishing state of the art facilities on campus to enable the students to undergo Industry relevant specific specialization.
- Opportunities for staff and students to visit industries/industry persons visit the college campus
- Providing opportunities for the students to develop their skills in field related Applications helping them to become entrepreneurs.
- Opportunity for doing research with creative ideas for industry relevant applications covering varieties of domains.
- Designing & organizing customized training programme to fulfill the specific training Needs of industrial personnel.

Industrial Visits Organized for Students:

S. No	Title of the Industry	Industry Representative	Academic Year	Date of Visit	Year-Semester	No. of Students Participated	Faculty Coordinator
1	Indian Metrological Department	Mrs. Naga Ratna, scientist	2019-20	15-Feb-20	II-II	43	Mr. Vijaya Bhasker Reddy, Mr. Tejeswara Kumar
2	Indian Metrological Department	Mrs. Naga Ratna, scientist	2019-20	13-Feb-20	II-II	42	Dr. D Chandra Prakash Mr. a. Saida
3	ELICO Pvt. Ltd	Mr. Manoj Kumar, HR	2019-20	25-Jan-20	III-II	38	
4	Electronics Test & Development Center	Mr. R. V. Sudhakar, Scientist 'G', ET&DC, ECIL	2019-20	26-Sep-19	III-I, IV-I	61	Mrs. T. Gayatri Mr. Arpit Yadav
5	Diesel Loco Shed, South Central Railway, Moula Ali	Mr. A. Surender Deputy Manager	2019-20	07-Sep-19	II-I	73	Mr. P. Ramesh Ms. Poonam
6	Sulakshana Circuits Ltd., IDA Bollaram	Mrs. Durga, Director	2018-19	20-Mar-19	II-II	37	Mr. Vijayabhaskar Reddy Mrs. G. Swathi
7	Prasara Bharathi Yadagiri, Ramanthapur, Hyderabad	Mr. V. Venkateshwarlu, DDE, Doordarshan Kendra	2018-19	27-Feb-19	III-II	22	Ms. Poonam Swami
8	Carriage Workshop, South Central Railway, Lalaguda, Secunderabad	Mr. Radhakrishna Rao	2018-19	14-Sep-18	III-I	29	Mr. A. Saida Mr. M. Murali Krishna
9	Mrugavani National Park	Mr. D. Chandra Prakash	2018-19	11-Mar-18	II-I	41	Mr. D. Chandra Prakash
10	Advanced Training Institute for Electronics and Process Instrumentation (MSDE-GOI) Ramanthapur, Hyderabad	Smt. Sakthi Ganesan, Jt. Director, ATIEPI	2018-19	11-Feb-18	IV-I	45	Mr. Md. Asif Ms. T. Gayatri

11	ISRO Sriharikota, Nellore, Andhra Pradesh	Mr.Vasu, Research assistant	2017-18	26-Feb-2018	III-II	18	Mr. D. Chandra Prakash
12	Indian Metrological Department	Mr. Murali Krishna, Scientist	2017-18	21 & 22-Aug-2017	III-I	74	Ms.P.Spandana
13	Indian Metrological Department	Mr. Murali Krishna, Scientist	2017-18	14-Sep-2017	IV-I	38	Mrs. P.Usha

Student Internships for Academic Year 2019-2020

S. No.	Roll No	Name of the Student	Internship / Training	Title/Topic	Duration in Days	Organization
1	17QM1A0407	Bokka Keerthi Reddy	Internship	FPGA implementation of traffic light based on sensor data in VLSI	29	Electronics Corporation of India limited
2	17QM1A0410	Dandigey Vasavi Rani	Internship	Overview of gas turbines and its instrumentations and control system	15	Bharat Heavy Electricals Limited
3	17QM1A0412	Dharmishetty Samhitha	Internship	Design & simulation of universal Asynchronous receiver & transmitter in VLSI.	29	Electronics Corporation of India limited, DRDO
4	17QM1A0415	K Ajay Reddy	Internship	Universal asynchronous receiver and transmitter	21	Electronics Corporation of India limited
5	17QM1A0416	K Sai Krishna Reddy	Internship	Universal asynchronous receiver and transmitter	21	AVEGA INNOVATIONS
6	17QM1A0418	Kadira Sai Poojitha	Internship	Overview of gas turbines and its	15	Bharat Heavy Electricals Limited

				instrumentation s and control system		
7	17QM1A0419	Kalikota Meghana	Internship	FPGA implementation of traffic light based on sensor data in VLSI	29	Electronics Corporation of India limited
8	17QM1A0420	Kareti Naga Surendra	Internship	Overview of gas turbines and its instrumentation s and control system	15	Bharat Heavy Electricals Limited
9	17QM1A0421	Shiva Sai Charan	Internship	Universal asynchronous receiver and transmitter	21	Electronics Corporation of India limited
10	17QM1A0425	Lingala Shiva Kumar	Internship	Universal asynchronous receiver and transmitter	21	Electronics Corporation of India limited
11	17QM1A0427	Mandapaka Dilip	Internship	Overview of gas turbines and its instrumentation s and control system	15	Bharat Heavy Electricals Limited
12	17QM1A0428	Meghraj Bhanu	Internship	Overview of gas turbines and its instrumentation s and control system	15	Bharat Heavy Electricals Limited
13	17QM1A0429	Mitta Akhila	Internship	Overview of gas turbines and its instrumentation s and control system	15	Bharat Heavy Electricals Limited
14	17QM1A0431	Pantham Divya	Internship	Study of PLL in industrial machine tools	14	Bharat Heavy Electricals Limited
15	17QM1A0433	Putta Sravanthi	Internship	Design & simulation of universal Asynchronous receiver &	29	Electronics Corporation of India limited, DRDO

				transmitter in VLSI.		
16	17QM1A0434	Ramavath Rakesh Naik	Internship	Overview of gas turbines and its instrumentations and control system	15	Bharat Heavy Electricals Limited
17	17QM1A0442	Sunkari Nikitha	Internship	Internet of things	29	Bhavathi Technologies
18	17QM1A0443	T Sai Charan	Internship	Overview of gas turbines and its instrumentations and control system	15	Bharat Heavy Electricals Limited
19	17QM1A0445	Thimmapuram Mamatha	Internship	Design & simulation of universal Asynchronous receiver & transmitter in VLSI.	29	Electronics Corporation of India limited, DRDO
20	17QM1A0446	Tirmal Apurva	Internship	FPGA implementation of traffic light based on sensor data in VLSI	29	Electronics Corporation of India limited
21	17QM1A0447	Todupunuri Akash	Internship	Overview of gas turbines and its instrumentations and control system	15	Bharat Heavy Electricals Limited
22	17QM1A0451	Molthati Yashwanth Kumar	Internship	Universal asynchronous receiver and transmitter	21	Electronics Corporation of India limited
23	17611A0401	Koukuntla Akshaya	Internship	Overview of gas turbines and its instrumentations and control system	15	Bharat Heavy Electricals Limited

Student Internships for Academic Year 2018-2019

S. No.	Roll No	Name of the Student	Internship / Training	Title/Topic	Duration in Days	Organization
1	16QM1A0401	Balusani Manoj Kumar	Internship	Study of CNC & PLC in industrial machines.	14	Bharat Heavy Electricals Limited
2	16QM1A0410	Gongati Rashmitha	Internship	Basic telecom with effect	27	BSNL
3	16QM1A0412	Gurrala Gayathri Padma Kumari	Internship	Study of CNC & PLC in industrial machines.	15	Bharat Heavy Electricals Limited
4	16QM1A0415	Kailasa Priyanka	Internship	Study of PLC application in CNC machines.	14	Bharat Heavy Electricals Limited
5	16QM1A0416	Kakulapati Sesha Srivalli	Internship	Web application development using HTML,CSS,JAVA SCRPIPT	28	Avega Innovations
6	16QM1A0421	M Manikanta Reddy	Internship	Study of CNC & PLC in industrial machines.	14	Bharat Heavy Electricals Limited
7	16QM1A0425	Mulakala Bhuvana Satya Sai	Internship	Social media influencer	30	AVTES OPC Pvt Ltd
8	16QM1A0426	P Samara Simha Reddy	Internship	Study of CNC & PLC in industrial machines.	15	Bharat Heavy Electricals Limited
9	16QM1A0428	Panganuru Naresh Phokran	Internship	Traffic controller in VLSI	29	Electronics Corporation of India limited
10	16QM1A0429	Pantham Keerthi	Internship	Study of PLC in industrial machines.	15	Bharat Heavy Electricals Limited
11	16QM1A0433	Ramaiah Supriya	Internship	Study of CNC & PLC in industrial machines.	14	Bharat Heavy Electricals Limited

12	16QM1A0435	S Sai Srivasthava Naidu	Internship	Study of CNC & PLC in industrial machines.	14	Bharat Heavy Electricals Limited
13	16QM1A0438	Talakanti Madhuri	Internship	Study of CNC & PLC in industrial machines.	15	Bharat Heavy Electricals Limited
14	16QM1A0441	Tota Narendra	Internship	Study of CNC & PLC in industrial machines.	15	Bharat Heavy Electricals Limited
15	16QM1A0442	Vootkuri Sudhir Goud	Internship	Study of CNC & PLC in industrial machines.	15	Bharat Heavy Electricals Limited

2.2.5. C Impact analysis of industrial training

- Students gain additional skills in areas such as communication, team building, problem solving and analytical reasoning.
- Students will experience significant improvement in critical thinking and problem-solving skill after their industrial training.
- Gain insights into career options to support choice of specialized field area to build and develop one's career.
- Students will experience significant improvement in team working skill after their industrial training.

Impact analysis of industrial training

KG REDDY College of Engineering & Technology

DEPARTMENT OF ELECTRONICS AND COMMMMUNCATTTIIION ENGINEERING

2.2.5 C: Impact analysis of Internship

An internship is the phase of time for students when they are trained for their skill they are good at and it gives them a chance to apply their knowledge practically in industries.

Internships are beneficial because they help develop your professional aptitude, strengthen personal character, and provide a greater door to opportunity. By investing in internships, you will give yourself the broadest spectrum of opportunity when seeking and applying for a job after college.

Internships give you the freedom to try different career paths without being completely tied to them for an extended period of time. Arming yourself with internship experience can make a ton of difference not only in your job search, but your future career. Take internship opportunities and make the most of them

Expectations of the students based on the feedback received from the students who did the internship in different organizations

- Students are expecting to increase the duration of internship.
- They would like to do multiple internships during their engineering.
- Students are expecting the internships along with stipends.
- Student would like to submit the work done in internships as a academic projects
- They are curious to adapt various methods for solving the real time problems
- Few students are happy as their internship provided them employment opportunity.

Top companies where student from ECE Dept would like to go for internship

- DRDO
- Wipro (Wireless Networking)
- Cisco Networking (Computer Networks)
- Infotech (Analog & Digital Electronics.
- Redpine (Signal Processing)
- General Electric (Electronics & Communication)
- Texas Instruments (Analog & Digital Electronics)

Faculty

HOD
HEAD
DEPT. OF ELECTRONICS & COMMUNICATIONS ENGINEERING
K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
CHILKUR (V), MOINABAD, R.R. DIST.-501 504

2.2.5. D Students feedback on initiative.

- At the end of the internship/program feedback reports are collected from students to analyze the impact of the activity.
- Feedback form is a collection of questions which will focus on every aspect of the program.
- After collecting the feedback, we will assess each question to take appropriate action.

3.COURSE OUTCOMES AND PROGRAM OUTCOMES (2014-18)BATCH Total Marks 120.00

Define the Program specific outcomes

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

PSO1	Problem Solving Skills – Graduates will be able to apply their knowledge in emerging electronics and communication engineering techniquesto design solutions and solve complex engineering problems.
PSO2	Professional Skills – Graduate will be able to think critically, communicate effectively, and collaborate in teams through participation in co andextra-curricular activities.
PSO3	Successful Career – Graduates will possess a solid foundation in Electronics and Communications engineering that will enable them to growin their profession and pursue lifelong learning through post-graduation and professional development
PSO4	Society Impact – Graduate will be able to work with the community and collaborate to develop technological solutions that would promotesustainable development in the society.

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

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

Course Name : Electrical Circuits	**C2 01**	**Course Year :II**	**2016-2017**

Items	**2015-16**
C2 01.1	Explain the basic elements (R, L, C) of electrical circuits.
C2 01.2	Analyze the single phase circuits.
C2 01.3	Sketch the locus diagram of magnetic circuits
C2 01.4	Apply mesh and nodal methods for analysis of electrical circuits.
C2 01.5	Apply network theorems to electrical circuits for AC,DC excitation.

Course Name : Digital Design Using Verilog HDL	**C2 11**	**Course Year :II**	**2016-2017**

Items	**2015-19**
C2 11.1	Describe verilog Hardware Description Language(HDL).
C2 11.2	Write behavioral, Gate level and Data flow model for combinational circuits.
C2 11.3	Verify behavioral and RTL models
C2 11.4	Describe the standard cell libraries and FPGAs
C2 11.5	Design and Analyze the combinational and sequential circuits

Course Name : Analog Communication	**C3 02**	**Course Year :III**	**2017-2018**

Items	**2016-**
C3 02.1	Analyze various modulation and demodulation techniques for analog systems
C3 02.2	Describe the characteristics of noise present in analog systems
C3 02.3	Calculate the Signal to Noise Ration (SNR) to evaluate the performance of various Analog Communication systems
C3 02.4	Analyze the various Pulse Modulation Systems.
C3 02.5	Explain the concepts of Time Division Multiplexing (TDM) and Frequency Division Multiplexing (FDM)

Course Name : Very Large Scale Integration	**C3 10**	**Course Year :**	**2017-2018**

Items	**2019-20**
C3 10.1	Explain the fabrication process of CMOS devices.
C3 10.2	Sketch the layout for various logic circuits
C3 10.3	Design circuits using alternative design styles and calculate area, capacitance and delay
C3 10.4	Design memories using MOS transistors.
C3 10.5	Design simple logic circuit using PLA,PAL, FPGA , CPLD

Course Name : Cellular Mobile Communication	**C4 03**	**Course Year :**	**2018-2019**

Items	**2019-20**
C4 03.1	Identify the impairments due to multi path fading channel.
C4 03.2	Compare the blocking probability and grade of service(GOS).
C4 03.3	Differentiate Co-channel and Non Co channel interference
C4 03.4	Explain diversity techniques and mobile antennas.
C4 03.5	Classify various types of handoff techniques

Course Name : Microwave Engineering	**C4 08**	**Course Year :**	**2018-2019**

Items	**2019-20**
C408.1	Summarize concepts of Microwave frequencies, Rectangular waveguides and Microstrip lines, Waveguide components
C408.2	Categorize Microwave tubes and Analyze Klystron, TWT
C408.3	Explain the working of Magnetron, Gunn diode
C40 8.4	Examine Frequency, Power, VSWR, Attenuation using Microwave Bench

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

1 . course name : C201

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C201.1	3	-	-	-	-	-	-	-	-	-	-	-

C201.2	2	3	-	-	-	-	-	-	-	-	-	-
C201.3	3		-	-	-	-	-	-	-	-	-	-
C201.4	2	2	-	-	-	-	-	-	-	-	-	-
C201.5	3	3	2	-	-	-	-	-	-	-	-	-
AVG	**2.6**	**1.6**	**0.4**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

2 . course name : C211

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	-	-	-	3	-	-	-	-	-	-	3
C211.2	3	3	-	-	3	-	-	-	-	-	-	3
C211.3	3	-	-	-	-	-	-	-	-	-	-	2
C211.4	2	-	-	-	3	-	-	-	-	-	-	2
C211.5	-	-	2	-	-	-	-	-	-	-	-	
AVG	**2.75**	**3**	**2**	**-**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**2.5**

3 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	-	-	-	-	3	2	-	-	-	-	-	3
C302.2	-	-	-	-	3	2	-	-	-	-	-	3
C302.3	-	-	-	-	3	2	-	-	-	-	-	3
C302.4	-	-	-	-	3	2	-	-	-	-	-	3
C302.5	-	-	-	-	3	2	-	-	-	-	-	3
AVG	**-**	**-**	**-**	**-**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**3**

4 . course name : C310

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3		-	-	-	-	-	-	-	-	-	3
C310.2	3	3	-	-	-	-	-	-	-	-	-	3
C310.3	3	-	-	-	-	-	-	-	-	-	-	-
C310.4	2	-	-	-	-	-	-	-	-	-	-	-
C310.5	-	-	3	-	-	-	-	-	-	-	-	-
AVG	**2.75**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**3**

5. course name : C403

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	-	-	-	-	-	-	-	-	-	-
C403 .2	2	3	-	-	-	-	-	-	-	-	-	2
C403 .3	3	2	-	-	-	-	-	-	-	-	-	-
C403.4	3	3	-	-	-	-	-	-	-	-	-	-
C403 .5	2	3	-	-	-	-	-	-	-	-	-	-
AVG	**2.6**	**2.8**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

6.course name : C408

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	3	-	-	-	-	3	-	3	3	3	3	-
C408.2	3	-	-	-	-	3	-	-	-	-	-	-
C408.3	2	2	3	-	-	3	-	-	-	-	-	-
C408.4	-	3	3	-	-	3	-	-	-	-	-	-
AVG	**2.67**	**2.5**	**3**	**-**	**-**	**3**	**-**	**3**	**3**	**3**	**3**	**-**

1. Course Name : C201

Course	PSO1	PSO2	PSO3	PSO4
C201.1	2	-	1	-
C201.2	1	-	-	-
C201.3	2	-	-	1
C201.4	3	-	-	-

C201.5	2	2	-	1
Average	2	2	1	1

2.. Course Name : C211

Course	PSO1	PSO2	PSO3	PSO4
C211.1	1	-	-	-
C211.2	3	-	-	-
C211.3	-	2	-	-
C211.4	-	-	-	1
C211.5	-	-	-	2
Average	2	2	-	1.5

1 . Course Name : C302

Course	PSO1	PSO2	PSO3	PSO4
C302.1	1	-	-	1
C302.2	1	-	-	-
C302.3	-	-	-	-
C302.4	-	-	-	1
C302.5	1	-	-	-
AVG	1	-	-	1

2 . Course Name : C310

Course	PSO1	PSO2	PSO3	PSO4
C310.1	1	-	-	-
C310.2	3	-	-	-
C310.3	-	2	-	-
C310.4	-	-	-	1
C310.5	-	-	-	2
AVG	2	2	-	1.5

3 **Course Name : C403**

Course	PSO1	PSO2	PSO3	PSO4
C403.1	3	3	1	-
C403.2	3	3	-	-
C403.3	2	3	1	-
C403.4	1	2	-	1
C403.5	-	3	-	-
AVG	2.25	2.8	1	1

4 **. Course Name : C408**

Course	PSO1	PSO2	PSO3	PSO4
C408.1	1	-	-	1
C408.2	1	-	-	-
C408.3	2	-	-	1
C408.4	-	-	-	1
AVG	1.3	-	-	1

3.1.3 Program level CO-PO, PSO matrix of all courses INCLUDING first year courses (10)

Correlation levels defined as
Level 1- Slight (Low)
Level 2- Moderate (Medium)
Level 3- Substantial (High)

CO Mapping with PO's (Batch: 2014-2018)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101		1		1		1.5		2.5		3		2
C102	2	2.5	2	1								
C103	2	2.75	1.5	1								
C104	2.25	1.5		1.5					1			
C105	2.25	3.00	2.00	1.50								
C106	2	3	3	2	1							
C107	2	2	2	1	1							
C108		1	2		3				1	3		2
C109					3	1	2		1.5	2.6		2
C110		2	2.6		1.7							2
C111	-	1	2	-	3	-	-	-	-	-	-	-
C201	2.6	2.67	2									
C202												
C203	3	2.2	2	2								3
C204	2.6	2.5	2.75	2.5	2	2						
C205	2.6	2.4	2									
C206	3	3										2.6
C207	2.4	2.4	2.8	2.6	2				3	3		2.25
C208	2.8	3	2.4	2.8	2.8	2	2	1.8	3	3		2.8

C209						3	3	3	2	2	1	2
C210	2.25	2.25										
C211	2.75	3	2		3							2.5
C212	2.4	2.8	2.6	2	1.7	2	2					2.5
C213	3	3	2.5									
C214	2.8	3	2.5		2		2	2				2.33
C215	2.33	2.67	2.33	2	2	2			3	3		
C216	2.66	2.89	2.39	2			2		3	3		
C301	3	3	3		2.7							2.8
C302					3							3
C303	2.5	2	2		3	2	2					3
C304	2.5	2.5	2	2.5	3	2						2.33
C305	2.6	3	3									2.5
C306	3	3	3	2.67	2.5				3	3		2.75
C307	3	3	3	2.67	2.5				3	3		2.75
C308	3	3	3	2.67	2.5				3	3		2.75
C309												3
C310	2.75	3	3									3
C311	2.8	2.8	1.67	2.8	3							3
C312	2.8	2.8		2.8	3							2.75
C313	2.8	2.8	3									3
C314		3	2	1	2	3		2.5	3	3	3	2.5
C315		3	2.33	2	3				3	3		
C316	2		1	2	2				3	3		
C401						2		3	3	3	3	
C402	2.33	2.2	2.33	2.33	2.5							2
C403	2.6	2.8										2
C404	2.8	3	3									3
C405	2	2.8	3	3			2				2	
C406		2	2.5	2					3	3		2
C407									3	3		
C408	2.67	2.5	3			3		3	3	3	3	
C409	1.5	2	1									1
C410	2.33	2				2					2	
C411	3	3	3	3	3	3	3	3	3	3	3	3
C412	3	3	3	3	3	3	3	3	3	3	3	3
C413					3	3			3	3		
C414						3			3	3		

CO Mapping with PSO's (Batch: 2014-2018)

Course	PSO1	PSO2	PSO3	PSO4
C101	2	2	2	
C102	2.5	2.5	1	
C103	3	1.75	1.25	
C104			1	
C105		1.00	1.67	1.50

C106	1		1	1.5
C107	2		1	2
C108			2	1
C109		1		2
C110	1	1.5		
C111	1	-	-	-
C201	2	2	1	1
C202				
C203	2.4	2		1
C204	1.5	3	3	1
C205	3	2	3	2.25
C206	1.4	1.6		1
C207			2	1
C208	1	2	2	1
C209	1			1.333
C210	1.5		2	1
C211	2			1.5
C212	2.6	2	2	1.25
C213	1		1	1
C214	2.8		2	1
C215	1	2		2
C216	1.88	2	1.667	1.35
C301	2.5	2.6	1	1
C302	1			1
C303	1.25		2	1
C304	2.2	2.5	1	1
C305	2.333	2.25		1
C306		1.5	2.5	2
C307		1.5	2.5	2
C308		1.5	2.5	2
C309	2	2		1
C310	2	2		1.5
C311	1			
C312	1.333			1
C313	1			
C314			3	1.5
C315	2	1.5	1	1
C316	1	2	1.667	
C401	1.25			1
C402				
C403	2.25	2.8	1	1
C404		1	1	1.5
C405	1.5	2	2	3
C406	1	1.5	1	1
C407			3	1
C408	1.333			1
C409	2		2	1

C410	1.5		2	
C411	3	3	3	3
C412	3	3	3	3
C413	1.8	2.8	2	1.8
C414	1.333	2.333	2.5	1.5

Table 3.1.3b CO-PSO Mapping for all the courses including first year

3.2 ATTAINMENT OF COURSE OUTCOMES

3.2.1 Describe the Assessment process used to gather the data upon which the evaluation of Course outcome is based

Assessment Process:

Assessment of Course Outcomes is based upon the performance in each semester in

i) Direct Assessment
ii) Indirect Assessment

Direct Assessment

1. Continuous Internal Assessment (CIA)
2. Term End Examination conducted by the University (TEE)

Type of Course	Internal Marks (CIA)	External Marks (TEE)	Total marks	Net CO attainment level as per weightage
Theory	Descriptive (10 Marks)	75	100	0.3*CIA+0.7*TEE
	Objective (10Marks)			
	Assignment (5 Marks)			
Laboratory	Day to Day Evolution (15 Marks)	50	75	0.3*CIA+0.7*TEE
	Internal Exam (10 Marks)			
Project	50	150	200	0.3*CIA+0.7*TEE

Note: The attainment Level is determined as given in Table, as per the ratio of students scoring the marks in both CIA and TEE

Level-1:35% of students scoring 40%of marks
Level-2:45% of students scoring 40%of marks
Level-3:55% of students scoring 40%of marks

Indirect Assessment:

Indirect Assessment is done from the following

1.Feedback from students

2. Program exit survey

3. Feedback from Alumni

For calculating final attainment 75% from direct and 25% from indirect assessment

Attainment=7.5*direct assessment+2.5*indirect assessment.

3.2.2. Record the Attainment of Course Outcomes of all Courses with respect to Set Attainment Levels (40).
Batch: 2015-2019

CO's	Course Name	Internal Attainment level (I)	External Attainment level(E)	overall attainment (0.3*I+0.7*E)
A10001	English	3	3	3
A10002	Mathematics-1	3	3	3
A10003	Mathematical Methods	3	3	3
A10004	Engineering Physics	3	3	3
A10005	Engineering Chemistry	3	3	3
A10501	Computer Programming	3	3	3
A10081	EP and EC Lab	3	3	3
A10082	IT/EW Lab	3	3	3
A10083	ELCS Lab	3	3	3
A10581	CP Lab	3	3	3
A10301	Engineering Drawing	3	3	3
A30404	Electronic devices and circuits	3	3	3
A30405	Probability Theory Stochastic Process	3	3	3
A30406	Signals& Systems	3	3	3
A30407	Switching Theory & Logic Design	3	3	3
A30007	Mathematics-III	3	3	3
A30204	Electronic Circuits	3	3	3
EC306ES	Electronic devices and circuits Lab	3	3	3
EC307ES	Basic Simulations Lab	3	3	3
A40009	Environmental Science	3	3	3
A40410	Digital Design Using Verilog HDL	3	3	3
A40411	Electro Magnetic theory & Transmission Lines	3	3	3
A40412	Pulse & Digital Circuits	3	3	3
A40415	Electronic Circuit Analysis	3	3	3
A40215	Principles of Electrical Engineering	3	3	3
A40288	Electrical Technology Lab	3	3	3
A40484	Electronic Circuits& Pulse Circuits Lab	3	3	3
A50516	Computer Organization and Operating Systems	3	3	3

A50408	Analog Communication (AC)	3	3	3
A50418	Antenna wave propagation	3	3	3
A50422	Electronic Measurements and Instrumentation (EMI)	3	3	3
A50425	Linear &Digital IC Applications	3	3	3
A50217	Control System Engineering (CSE)	3	3	3
A50487	Analog Communication Lab	3	3	3
A50488	IC Applications & HDL Lab	3	3	3
A60010	Managerial Economics & Financial Analysis	3	3	3
A60420	Digital Communication	3	3	3
A60421	Digital Signal Processing	3	3	3
A60430	Microprocessors& Microcontrollers	3	3	3
A60432	Very Large Scale Integration	3	3	3
A60018	Human Values &Professional Ethics	3	3	3
A60493	Digital Signal Processing Lab	3	3	3
A60494	Microprocessors& Microcontrollers Lab	3	3	3
A70014	Management Science	3	3	3
A70515	Computer Networking	3	3	3
A70434	Cellular Mobile Communication	3	3	3
A70436	Digital Image Processing	3	3	3
A70440	Embedded system design	3	3	3
A70086	Advanced communication skills Lab	3	3	3
A70499	Microwave Engineering& Digital Communication Lab	3	3	3
A80450	Radar Systems	3	3	3
A80452	Satellite communication	3	3	3
A80454	Wireless communication &Networks	3	3	3
A80087	Mini Project	3	3	3
A80088	Major Project	3	3	3
A80089	Seminar	3	3	3
A80090	Comprehensive Viva	3	3	3

Batch: 2014-2018

CO's	Course Name	Internal attainment level (I)	External attainment level (E)	Overall attainment (0.3* I+0.7 *E)
A10001	English	3	3	3
A10002	Mathematics-1	3	3	3
A10003	Mathematical Methods	3	3	3
A10004	Engineering Physics	3	3	3
A10005	Engineering Chemistry	3	3	3
A10501	Computer Programming	3	3	3
A10081	EP and EC Lab	3	3	3
A10082	IT/EW Lab	3	3	3
A10083	ELCS Lab	3	3	3
A10581	CP Lab	3	3	3
A10301	Engineering Drawing	3	3	3
A30404	Electronic devices and circuits	3	3	3
A30405	Probability Theory Stochastic Process	3	3	3
A30406	Signals& Systems	3	3	3
A30407	Switching Theory & Logic Design	3	3	3
A30007	Mathematics-III	3	2	2.3
A30204	Electronic Circuits	3	3	3
EC306ES	Electronic devices and circuits Lab	3	3	3
EC307ES	Basic Simulations Lab	3	3	3
A40009	Environmental Science	3	3	3
A40410	Digital Design Using Verilog HDL	3	3	3
A40411	Electro Magnetic theory & Transmission Lines	3	3	3
A40412	Pulse & Digital Circuits	3	3	3
A40415	Electronic Circuit Analysis	3	3	3
A40215	Principles of Electrical Engineering	3	3	3
A40288	Electrical Technology Lab	3	3	3
A40484	Electronic Circuits& Pulse Circuits Lab	3	3	3
A50516	Computer Organization	3	3	3

	and Operating Systems			
A50408	Analog Communication (AC)	3	3	3
A50418	Antenna wave propagation	3	3	3
A50422	Electronic Measurements and Instrumentation (EMI)	3	3	3
A50425	Linear &Digital IC Applications	3	3	3
A50217	Control System Engineering (CSE)	3	3	3
A50487	Analog Communication Lab	3	3	3
A50488	IC Applications & HDL Lab	3	3	3
A60010	Managerial Economics & Financial Analysis	3	3	3
A60420	Digital Communication	3	3	3
A60421	Digital Signal Processing	3	3	3
A60430	Microprocessors& Microcontrollers	3	3	2.3
A60432	Very Large Scale Integration	3	3	3
A60018	Human Values &Professional Ethics	3	3	3
A60493	Digital Signal Processing Lab	3	3	3
A60494	Microprocessors& Microcontrollers Lab	3	3	3
A70014	Management Science	3	3	3
A70515	Computer Networking	3	3	3
A70434	Cellular Mobile Communication	3	3	3
A70436	Digital Image Processing	3	3	3
A70440	Embedded system design	2.9	3	2.97
A70086	Advanced communication skills Lab	3	3	3
A70499	Microwave Engineering& Digital Communication Lab	3	3	3
A80450	Radar Systems	3	3	3
A80452	Satellite communication	3	3	3
A80454	Wireless communication &Networks	3	3	3

A80087	Mini Project	3	3	3
A80088	Major Project	3	3	3
A80089	Seminar	3	3	3
A80090	Comprehensive Viva	3	3	3

Batch: 2013-2017

CO's	Course Name	Internal attainment level (I)	External attainment level(E)	Overall attainment (0.3* I+0.7 *E)
A10001	English	3	3	3
A10002	Mathematics-1	3	3	3
A10003	Mathematical Methods	3	3	3
A10004	Engineering Physics	3	3	3
A10005	Engineering Chemistry	3	3	3
A10501	Computer Programming	3	3	3
A10081	EP and EC Lab	3	3	3
A10082	IT/EW Lab	3	3	3
A10083	ELCS Lab	3	3	3
A10581	CP Lab	3	3	3
A10301	Engineering Drawing	3	2	2.3
A30404	Electronic devices and circuits	3	3	3
A30405	Probability Theory Stochastic Process	3	3	3
A30406	Signals& Systems	3	3	3
A30407	Switching Theory & Logic Design	3	3	3
A30007	Mathematics-III	3	3	3
A30204	Electronic Circuits	3	3	3
EC306ES	Electronic devices and circuits Lab	3	3	3
EC307ES	Basic Simulations Lab	3	3	3
A40009	Environmental Science	3	3	3
A40410	Digital Design Using Verilog HDL	3	3	3
A40411	Electro Magnetic theory & Transmission Lines	3	3	3
A40412	Pulse & Digital Circuits	3	3	3
A40415	Electronic Circuit Analysis	3	3	3
A40215	Principles of Electrical	3	3	3

	Engineering			
A40288	Electrical Technology Lab	3	3	3
A40484	Electronic Circuits& Pulse Circuits Lab	3	3	3
A50516	Computer Organization and Operating Systems	3	3	3
A50408	Analog Communication (AC)	3	3	3
A50418	Antenna wave propagation	3	3	3
A50422	Electronic Measurements and Instrumentation (EMI)	3	3	3
A50425	Linear &Digital IC Applications	3	3	3
A50217	Control System Engineering (CSE)	3	3	3
A50487	Analog Communication Lab	3	3	3
A50488	IC Applications & HDL Lab	3	3	3
A60010	Managerial Economics & Financial Analysis	3	3	3
A60420	Digital Communication	3	3	3
A60421	Digital Signal Processing	3	3	3
A60430	Microprocessors& Microcontrollers	3	3	3
A60432	Very Large Scale Integration	3	3	3
A60018	Human Values &Professional Ethics	3	3	3
A60493	Digital Signal Processing Lab	3	3	3
A60494	Microprocessors& Microcontrollers Lab	3	3	3
A70014	Management Science	3	3	3
A70515	Computer Networking	3	3	3
A70434	Cellular Mobile Communication	3	3	3
A70436	Digital Image Processing	3	3	3
A70440	Embedded system design	3	3	3
A70086	Advanced communication skills Lab	3	3	3
A70499	Microwave Engineering& Digital Communication Lab	3	3	3
A80450	Radar Systems	3	3	3
A80452	Satellite communication	3	3	3
A80454	Wireless communication &Networks	3	3	3

A80087	Mini Project	3	3	3
A80088	Major Project	3	3	3
A80089	Seminar	3	3	3
A80090	Comprehensive Viva	3	3	3

3.3. ATTAINMENT OF PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES (50)

Institute Marks: 50.0

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

S. No.	Description	Tools Used	Frequency
1	Assignments	Direct	Twice in Semester
2	Quiz Tests (JNTUH)	Direct	Twice in Semester
3	Descriptive Tests	Direct	Twice in Semester
4	JNTUH End Exams	Direct	Once in Semester
6	GD/Case-Study/Role Play / Debates & Interactive session	Indirect	Once in Week
7	Tutorials	Indirect	Once in Week (for difficult subject)
9	Observation/Mentoring	Indirect	Continuous/Fortnightly
10	Peer/Group learning	Indirect	Continuous for Assignments/Projects/Team Events
11	Student Feedback	Indirect	Twice in Semester
12	Alumni Feedback	Indirect	Once in Year
13	Faculty Feedback	Indirect	Once in Year

3.3.2. Provide results of evaluation of each PO & PSO (40)

Details of PO ATTAINMENT (2014-2018)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C101	0.00	0.19	0.00	0.19	0.00	1.11	0.00	0.93	0.00	1.67	0.00	0.37
C102	1.09	1.36	0.41	0.27	0.14	0.00	0.00	0.00	0.00	0	0.00	0.00
C103	1.09	1.50	0.14	0.27	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
C104	1.43	0.48	0.00	0.48	0.16	0.00	0.00	0.00	0.00	0	0.00	0.00
C105	1.61	0.48	0.97	0.97	0.16	0.00	0.00	0.00	0.00	0	0.00	0.00
C106	0.65	0.48	0.49	0.32	0.16	0.00	0.00	0.00	0.00	0	0.00	0.00
C107	1.20	2.00	1.60	1.20	1.60	0.00	0.00	0.00	0.00	0	0.00	0.00
C108	0.32	0.10	0.19	0.19	0.03	0.00	0.00	0.00	0.00	0	0.00	0.00
C109	0.00	0.00	0.00	0.00	0.60	0.20	0.40	0.00	1.20	0	0.00	0.80
C110	0.24	0.40	0.32	0.24	0.32	0.00	0.00	0.00	0.00	0	0.00	0.00
C111	0.00	1.20	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0	0.00	0.80
C201	2.22	1.41	0.35	0.00	0.17	0.00	0.00	0.00	0.00	0	0.00	0.00
C202	2.35	2.19	0.74	0.00	0.18	0.00	0.00	0.00	0.00	0	0.00	0.00
C203	2.66	1.86	0.68	0.35	0.00	0.00	0.00	0.00	0.00	0	0.00	1.54
C204	2.38	1.85	1.66	0.94	1.12	0.37	0.00	0.00	0.00	0	0.00	0.00
C205	2.35	2.19	0.74	0.00	0.18	0.00	0.00	0.00	0.00	0	0.00	0.00
C206	1.80	1.80	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0	0.12	1.56
C207	2.34	2.34	2.73	2.54	1.56	0.00	0.00	0.00	2.93	2.93	0.00	1.76
C208	2.66	2.85	2.28	2.66	2.66	1.52	0.38	1.71	2.85	2.85	0.00	2.66
C209	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.39	0.39	0.19	0.39
C210	1.54	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
C211	1.69	0.47	0.32	0.00	1.38	0.00	0.00	0.00	0.00	0	0.00	1.42
C212	2.07	2.42	2.25	0.70	0.70	0.35	0.35	0.00	0.00	0	0.00	1.23
C213	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
C214	2.32	2.03	1.69	0.00	1.35	0.00	0.34	0.34	0.00	0	0.00	0.68
C215	1.40	1.60	1.40	1.60	1.20	0.40	0.00	0.00	2.40	2.40	0.00	0.00
C216	1.85	1.85	2.22	2.03	0.00	0.00	0.37	0.00	2.22	2.22	0.00	0.00
C301	2.25	2.21	1.76	0.00	1.35	0.00	0.00	0.00	0.00	0	0.00	2.55
C302	0.37	0.37	0.44	0.41	0.00	0.00	0.07	0.00	0.44	0	0.00	0.00
C303	0.45	0.44	0.35	0.00	0.27	0.00	0.00	0.00	0.00	0	0.00	0.51
C304	0.45	0.44	0.35	0.00	0.27	0.00	0.00	0.00	0.00	0	0.00	0.51
C305	2.27	2.27	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	1.22
C306	0.90	0.90	0.90	1.20	0.75	0.00	0.00	0.00	1.80	1.8	0.00	1.65
C307	0.09	0.09	0.07	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.10
C308	0.45	0.45	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
C309	0.54	1.42	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C310	0.02	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02
C311	2.18	2.18	0.80	2.18	2.34	0.00	0.00	0.00	0.00	0.00	0.00	1.88
C312	1.85	1.98	0.00	1.98	0.81	0.00	0.00	0.00	0.00	0.00	0.00	1.86
C313	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C314	0.00	0.48	0.32	0.16	0.34	2.00	0.00	1.67	1.83	2	2.00	1.83

C315	0.00	1.20	1.40	2.00	3.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00
C316	0.40	0.00	0.20	1.20	1.60	0.00	0.00	0.00	1.80	1.80	0.00	0.00
C401	0.00	0.00	0.00	0.00	0.00	1.66	0.00	2.49	2.49	2.49	2.49	0.00
C402	1.18	2.01	1.21	1.18	0.84	0.00	0.00	0.00	0.00	0.00	0.00	1.66
C403	1.99	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
C404	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.50	0.50	0.00	0.50	0.00
C405	1.51	1.51	0.58	0.56	0.00	0.00	0.39	0.00	0.00	0.39	0.39	0.00
C406	0.00	0.40	1.00	0.80	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.40
C407	0	0	0	0	0	0	0	0	3	3	0	0
C408	1.454	0.9	1.08	0	0	2.173	0	0.545	0.545	0	0.545	0
C409	0.541	1.42	0.53	0	0	0	0	0	0	0	0	0
C410	1.108	0.95	0	0	0	0.634	0	0	0	0	0.634	0
C411	0.6	0.6	0.6	0.6	0.6	3	2.4	2.4	3	3	3	3
C412	0.6	0.6	0.6	0.6	0.6	3	2.4	2.4	3	3	3	3
C413	0	0	0	0	0.6	1.8	0	0	3	3	0	0
C414	0	0	0	0	0.6	1.8	0	0	3	3	0	0

PO Attainment Level

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
Direct Attainment	0.77	0.78	0.48	0.36	0.38	0.29	0.11	0.19	0.56	0.55	0.17	0.45
Indirect Attainment	0.82	0.82	0.83	0.83	0.82	0.81	0.86	0.84	0.85	0.85	0.92	0.87
Overall Attainment	1.59	1.61	1.31	1.19	1.20	1.10	0.98	1.03	1.41	1.03	1.09	1.32

Details of PSO Assessment (2014-2018)

Course	**PSO1**	**PSO2**	**PSO3**	**PSO4**
C101	1.48	1.48	1.48	
C102	1.36	1.36	0.54	0.00
C103	1.63	0.95	0.68	0.00
C104	0.00	0.00	0.63	0.00
C105	0.48	0.16	0.20	0.20
C106	0.16	0.00	0.00	0.00
C107	0.60	0.00	0.02	0.00
C108	0.10	0.03	0.04	0.04
C109	0.00	0.80	0.00	0.00
C110	0.12	0.00	0.00	0.00
C111	0.40	0.60	0.00	0.00
C201	1.72	0.35	0.40	0.40
C202	2.19	1.82	2.00	2.00
C203	2.04	0.33	0.00	0.35
C204	0.53	0.56	0.91	0.37

C205	2.19	1.82	2.00	2.00
C206	0.84	0.96	1.60	1.60
C207	0.00	0.00	0.04	0.02
C208	0.95	1.90	0.01	0.01
C209	0.19	0.00	0.00	0.00
C210	1.03	0.00	0.01	0.01
C211	0.62	0.32	0.00	0.00
C212	2.07	0.70	0.02	0.03
C213	0.21	0.00	0.00	0.00
C214	2.32	0.51	0.00	0.00
C215	0.40	0.40	0.00	0.00
C216	0.18	0.37	0.01	0.01
C301	1.76	2.26	0.69	0.69
C302	0.04	0.07	0.00	0.00
C303	0.35	0.45	0.14	0.14
C304	0.35	0.45	0.14	0.14
C305	1.20	1.59	0.00	0.00
C306	0.00	0.45	0.75	0.30
C307	0.07	0.09	0.03	0.03
C308	0.24	0.32	0.00	0.00
C309	0.18	0.00	0.02	0.00
C310	0.01	0.02	0.01	0.01
C311	0.78	0.00	0.00	0.00
C312	0.54	0.00	0.00	0.01
C313	0.00	0.00	0.00	0.00
C314	0.00	0.00	0.00	0.00
C315	0.40	0.60	0.01	0.01
C316	0.40	0.40	0.00	0.00
C401	0.82	0.00	0.00	0.00
C402	0.00	0.00	0.00	0.00
C403	1.40	2.13	0.01	0.00
C404	0.16	0.00	0.00	0.00
C405	0.57	0.76	0.01	0.00
C406	0.20	0.60	0.20	0.20
C407	0	0	3	1
C408	0	0.73	0	0.009
C409	0.18	0	0.021	0.004
C410	0.953	0	0	0
C411	0.6	0.4	0.4	0.4
C412	0.6	0.4	0.4	0.4
C413	0.8	0	0.4	0.2
C414	0.8	0	0.4	0.2

PSO Attainment Level

Course	PSO1	PSO2	PSO3	PSO4
Direct Attainment	0.49	0.36	0.22	0.14
Indirect Attainment	0.81	0.85	0.80	0.85
Overall Attainment	**1.30**	**1.21**	**1.02**	**0.99**

4. STUDENTS' PERFORMANCE (150)

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	**2019-20 (CAY)**	**2018-19 (CAYm1)**	**2017-18(CAYm2)**	**2016-17(CAYm3)**	**2015-16(CAYm4)**	**2014-15 (CAYm5)**	**2013-14 (CAYm6)**
Sanctioned intake of the program(N)	120	120	60	60	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	69	103	54	44	85	43	76
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	12	2	1	14	4	0
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	69	115	56	45	99	47	76

Table 4.2

Year of entry	**Total No of students admitted in the program (N1 + N2 + N3)**	**Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)**			
		I year	**II year**	**III year**	**IV year**
2019-20 (CAY)	69	0	0	0	0
2018-19 (CAYm1)	115	35	0	0	0
2017-18 (CAYm2)	56	40	34	0	0
2016-17 (CAYm3)	45	33	27	20	0
2015-16 (LYG)	99	47	50	42	42
2014-15 (LYGm1)	47	19	20	17	14
2013-14 (LYGm2)	76	31	28	26	24

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2019-20 (CAY)	69	0	0	0	0
2018-19 (CAYm1)	115	93	0	0	0
2017-18 (CAYm2)	56	49	51	0	0
2016-17 (CAYm3)	45	37	31	31	0
2015-16 (LYG)	99	75	84	83	57
2014-15 (LYGm1)	47	43	37	37	21
2013-14 (LYGm2)	76	66	62	53	38

4.1 Enrolment Ratio (20)

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2019-20 (CAY)	120	69	57.50
2018-19 (CAYm1)	120	103	85.83
2017-18 (CAYm2)	60	54	90.00

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

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

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

Item	Latest Year of	Latest Year of	Latest Year of

	Graduation, LYG (2015-16)	Graduation minus 1, LYGm1 (2014-15)	Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	99.00	47.00	76.00
Y Number of students who have graduated without backlogs in the stipulated period	42.00	14.00	24.00
Success Index [SI = Y / X]	0.42	0.30	0.32

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

4.2.2 Success rate in stipulated period (15)

Item	Latest Year of Graduation, LYG (2015-16)	Latest Year of Graduation minus 1, LYGm1 (2014-15)	Latest Year of Graduation minus 2 LYGm2 (2013-14)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	99.00	47.00	76.00
Y Number of students who have graduated in the stipulated period	57.00	21.00	38.00
Success Index [SI = Y / X]	0.58	0.45	0.50

Average SI[(SI1 + SI2 + SI3) / 3]: 0.51

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

4.3 Academic Performance in Third Year (15)

Academic Performance	**CAYm3 (2016-17)**	**LYG (2015-16)**	**LYGm1 (2014-15)**
Mean of CGPA or mean percentage of all successful students(X)	6.89	6.67	6.78
Total number of successful students(Y)	31.00	83.00	37.00
Totalnumber of students appeared in the examination(Z)	31.00	84.00	37.00
API [X*(Y/Z)]:	6.89	6.59	6.78

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

4.4 Academic Performance in Second Year (15)

Academic Performance	**CAYm2 (2017-18)**	**CAYm3 (2016-17)**	**LYG (2015-16)**
Mean of CGPA or mean percentage of all successful students(X)	6.91	6.53	6.66
Total number of successful students (Y)	51.00	31.00	84.00
Total number of students appeared in the examination (Z)	51.00	38.00	89.00
API [X * (Y/Z)]	6.91	5.33	6.29

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

4.5 Placement, Higher Studies and Entrepreneurship (40)

Item	LYG (2015-16)	LYGm1 (2014-15)	LYGm2 (2013-14)
Total No of Final Year Students(N)	83.00	37.00	53.00
No of students placed in the companies or government sector(X)	37.00	16.00	25.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	20.00	5.00	12.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	0.00	1.00
x + y + z =	57.00	21.00	38.00
Placement Index [(X+Y+Z)/N] :	0.69	0.57	0.72

PROGRAM NAME:

Assessment Year Name : CAYm1 – 2018-19

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	J.Barua	15QM1A0427	BYJU's	TNL21826734/2019
2	K.Harinath	15QM1A0434	Aquila Medical Scribing	(A/Estb/2019-112)17-06-2019
3	V.Nagavineetha	15QM1A0483	Aquila Medical Scribing	(A/Estb/2019-109)17-06-2019
4	G Praveen Kumar	15QM1A0417	Vasudhaika Software Pvt Ltd	(VS/REC/062019/012) 07-08-2019
5	G.Sowjanya	15QM1A0423	Vasudhaika Software Pvt Ltd	(VS/REC/062019/014) 07-06-2019
6	C.Bavana	15QM1A0410	Vasudhaika Software Pvt Ltd	(VS/REC/062019/011) 07-06-2019
7	N.Jayanth	15QM1A0457	Vasudhaika Software Pvt Ltd	(VS/REC/062019/010) 07-06-2019
8	Athira	15QM1A0478	Qspiders	(2019/1124)24-08-2019
9	Sushma	15QM1A0418	Qspiders	(2019/1118)24-08-2019
10	Geetha sphoorthi Gottapu	15QM1A0422	Qspiders	(2019/1127)24-08-2019
11	J Chandra Shekar Reddy	15QM1A0425	Qspiders	(2019/1116)24-08-2019
12	Sandhya Sappa	15QM1A0468	Qspiders	(2019/1119)24-08-2019
13	M.Samyukta	15QM1A0445	Genpact	(HR/E&R/2019-587)24-06-2019
14	Roushni sing	15QM1A0473	Genpact	(HR/E&R/2019-612)24-06-2019
15	Nikitha Reddy	15QM1A	Side Farm Pvt Ltd	(SFL/074)08-07-2019

		0455		
16	C Pushpaleela	15QM1A0413	Side Farm Pvt Ltd	(SFL/062)08-07-2019
17	D Deepsagar Reddy	15QM1A0415	Side Farm Pvt Ltd	(SFL/087)08-07-2019
18	V Subba Reddy	15QM1A0431	Apollo Pharmacy	(5-2019-AO/45)10-08-2019
19	E Prasad Goud	15QM1A0416	Sulakshana Circuits Limited	(SCL/HR-Rect/2019/51)25-07-2019
20	P Mounika	15QM1A0459	Sulakshana Circuits Limited	(SCL/HR-Rect/2019/52)25-07-2019
21	K Karthik	15QM1A0432	Sulakshana Circuits Limited	(SCL/HR-Rect/2019/53)25-07-2019
22	K Aishwarya	15QM1A0435	Sulakshana Circuits Limited	(SCL/HR-Rect/2019/54)25-07-2019
23	K Vinay Chary	15QM1A0429	Vasudhaika Software Pvt Ltd	(VS/REC/062019/021) 07-06-2019
24	Dikshith Rao	15QM1A0401	ADP	2019
25	Rayili Abhilash	16QM5A0412	Walking Tree Technologies Pvt. Ltd	(HR/2019-44)4-2-2020
26	Kammari Shravani	15QM1A0430	Amdocs Development Center India LLP	(ADC/055/2020)-14-2-020
27	B.Ravali	15QM1AO409	TCSL	11-2-2020
28	J. Poojitha	15QM1AO426	Deloitte	2019
29	L.Navya	15QM1AO439	Sesillis Solutions Pvt Limited	(HR/Adm-07/2019-074)08-07-2019
30	M. Srija	15QM1AO442	Sesillis Solutions Pvt Limited	(HR/Adm-07/2019-077)08-07-2019
31	G. Vishvanath	15QM1AO447	Sesillis Solutions Pvt Limited	(HR/Adm-07/2019-085)08-07-2019
32	N. Swapna	15QM1AO451	Sesillis Solutions Pvt Limited	(HR/Adm-07/2019-089)08-07-2019
33	P Divya	15QM1AO460	Sesillis Solutions Pvt Limited	(HR/Adm-07/2019-036)08-07-2019
34	M Naveen Raj	15QM1AO441	Magnetek Enterprises	(ME/AO-18/2019)16-07-2019
35	Bharath Raj	15QM1AO485	Magnetek Enterprises	(ME/AO-18/2019)16-07-2019
36	S. Narotham Reddy	15QM1AO469	Magnetek Enterprises	(ME/AO-18/2019)16-07-2019
37	Naga Laxmi Priyanka	15QM1AO420	Vasudhaika	(VS/REC/062019/025) 07-06-2019

Assessment Year Name : CAYm2

S. No	Student Name	Enrollment No	Employee Name	Appointment No
1	K Sangeetha	14QM1A0427	Genpact	(HR/E&R/2018-017)16-09-2018
2	Pati Navya Reddy	14QM1A0438	Accenture	18-01-2019
3	L Mayur	14QM1A0428	Qspider’s	(2018/325)24-08-2018
4	B Pavan Kumar	14QM1A0408	Qspider’s	(2018/347)24-08-2018
5	A Prashanth Reddy	14QM1A0405	Dialogue Institution India Private Ltd	21-01-2019
6	Ch Bhavani	14QM1A0411	Eureka Forbes	(EFHO/2018/Admin-256)22-09-2018
7	Ranjeet Naik	14QM1A0443	Eureka Forbes	(EFHO/2018/Admin-258)22-09-2018
8	N Vijay	14QM1A0436	Eureka Forbes	(EFHO/2018/Admin-251)22-09-2018
9	G Vikram Reddy	14QM1A0420	Accenture	11673521
10	J Keerthi	14QM1A0423	Swagatham Resource Management	(SRM/E&R/2019-55)25-06-2019
11	D Sai Krishna	14QM1A0416	Fission Labs	(1/22/364)3-5-2019
12	Vadla Praveen	15QM5A0403	Alpha Associates	(AAER/2018-97)1-6-2018
13	Bonasi Gangi Reddy	14QM1A0409	Capgemini	(HR-RO-D/89)27-6-2019
14	Dumpalla Susheel Mudiraj	14QM1A0415	Alpha Associates	(AAER/2018-58)1-6-2018
15	Kothakapu Laxmikanth Reddy	14QM1A0426	Alpha Associates	(AAER/2018-87)1-6-2018
16	Tuggali Kishore	14QM1A0445	Lodestone Software Services Pvt. Ltd	(HR/2018/07/D-588)12-07-2018

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Krishna	13QM1A0424	Technolexis Pvt. Ltd, Hyderabad	(TPH/Admin-05824)22-08-2017
2	Kalyani	13QM1A0446	Cognizant, Hyderabad	(HR/07/2017-B-039)26-07-2017
3	A Manisha	13QM1A0406	Apps Associates	(AAHR/ADM-2017-Engg-612) 02-08-2017
4	C Sai Kiran	13QM1A0412	Apps Associates	(AAHR/ADM-2017-Engg-738) 05-08-2017
5	K Shadmaan Khan	13QM1A0431	Apps Associates	(AAHR/ADM-2017-Engg-765) 04-08-2017

6	D Sai Kumar Reddy	13QM1A0420	Apps Associates	(AAHR/ADM-2017-Engg-759) 02-08-2017
7	B.Akhila	13QM1A0411	Nucleonix Systems Pvt. Ltd	(2017-A/123)19-09-2017
8	K Phanindra	13QM1A0429	Nucleonix Systems Pvt. Ltd.	(2017-A/158)19-09-2017
9	C Vinod	13QM1A0413	Nucleonix Systems Pvt. Ltd.	(2017-A/173)23-09-2017
10	P Ashwini	13QM1A0447	Nucleonix Systems Pvt. Ltd	(2017-A/133)19-09-2017
11	P Sushmitha	13QM1A0451	Nucleonix Systems Pvt. Ltd	(2017-A/083)16-09-2017
12	Yogender Singh	13QM1A0435	Nucleonix Systems Pvt. Ltd	(2017-A/163)23-09-2017
13	Chintagunta Reddappa	13QM1A0417	Nucleonix Systems Pvt. Ltd.	(2017-A/089)16-09-2017
14	P Ashwini	13QM1A0450	Versant Technologies	(VT/HR-Rect-E/54)27-10-2017
15	M Dinesh Kumar	13QM1A0438	Versant Technologies	(VT/HR-Rect-E/36)25-10-2017
16	G Anusha	13QM1A0421	Versant Technologies	(VT/HR-Rect-E/74)27-10-2017
17	M Pashwan	13QM1A0440	Versant Technologies	(VT/HR-Rect-E/69)27-10-2017
18	Md Azimuddin	13QM1A0442	Versant Technologies	(VT/HR-Rect-E/78)27-10-2017
19	G Divya	13QM1A0422	Versant Technologies	(VT/HR-Rect-E/49)25-10-2017
20	G Rajeshwari	13QM1A0423	Infotech Enterprises Ltd.	(2017/IEL-105)12-09-2017
21	K Srikanth	13QM1A0427	Infotech Enterprises Ltd	(2017/IEL-120)14-07-2017
22	M Radha	13QM1A0437	Infotech Enterprises Ltd.	(2017/IEL-101)12-07-2017
23	C Bhargavi	13QM1A0416	Infotech Enterprises Ltd	(2017/IEL-098)12-07-2017
24	M Yogender Singh	13QM1A0443	Infotech Enterprises Ltd.	(2017/IEL-086)12-07-2017
25	K Shashi Kumar	13QM1A0430	Infotech Enterprises Ltd.	(2017/IEL-119)14-07-2017

4.6 Professional Activities (20)

4.6.1 Professiona1 societies/ chapters and organizing engineering events (5)

S.No	Professional Societies/chapters
1	IETE CHAPTER
2	IEEE CHAPTER

Under IETE and IEEE chapter:

ACADEMIC YEAR 2019-20

Sl.No	Title of Workshop/Seminar (IETE and IEEE)	Date	Target Audience
1	Guest Lecture on IoT Big Picture	2/5/2020	II ECE
2	Seminar on Multirate Signal Processing	5/5/2020	III ECE
3	Poster Presentation on Artificial Intelligence	2/3/2020	II/III/IV ECE/EEE
4	Vertical gardening event at KGRCET	27/02/2020 to 29/02/2020	II/III/IV ECE
5	Project Based Assignment Expo Competition	06/01/2020	II/III/IV ECE
6	Hackathon	17/6/2019 to 18/6/2019	EEE, ECE, CSE IOT Makerspace Registered Students
7	Guest Lecture on ARDUNIO	19/08/2019	III-I ECE
8	Guest Lecture on DSD	26/10/2019	II-I ECE
9	Guest Lecture on NATL	31/10/2019	II-I ECE
10	Guest Lecture on Signal and Stochastic Process (SSP)	25/10/19 to 20/11/19	II-I ECE
11	Role of AI & ML in social development Essay writing competition	30/10/2019	II ECE
12	Guest Lecture on VLSI	06/11/2019	IV-I ECE

ACADEMIC YEAR 2018-19

Sl.No	Title of Workshop/Seminar	Date	Target Audience
1.	IEEE Student Chapter Orientation Program	2/2/2019	II ECE/CSE/EEE
2.	Poster Presentation on Artificial Intelligence	30/3/2019	II ECE/CSE/EEE
3.	Cognitive Skills, Design Thinking and Critical Thinking Project Expo 2019	26/4/2019	IV ECE/EEE/MECH/ CSE
4.	One Day Workshop/Talk on Cognitive Skills, Design Thinking and Critical Thinking	7/5/2019	II ECE/EEE/MECH/ CSE
5.	Student survey- ELITE- ECE student forum	30/07/2019	II/III/IV ECE
6.	Drawing Competition	06/09/2019	II/III/IV ECE
7.	Poster presentation & project expo Competition	21/09/2019	II/III/IV ECE
8.	One Day Workshop on Problem Solving and Design Thinking	22/9/2019	II/III/IV ECE
9.	Inauguration of ELITE student forum	08/11/2019	II/III/IV ECE
10.	Reconstructed a government school near Suchitra circle and provided them with projectors and sports equipment.	16/11/2019	II/III/IV ECE
11.	Distributed walking sticks in a village near Chevella	18/11/2019	II/III/IV ECE
12.	Provided sports equipment for a government school near Chevella.	18/11/2019	II/III/IV ECE
13.	Intellectual Property Rights	8/2/2018	IV ECE
14.	Seminar on Ethics & Human Values	04/7/2018	IV ECE
15.	Seminar on Fundamentals of Communication Systems	04/7/2018	IV ECE
16.	Seminar on Career Guidance	11/9/2018	IV ECE
17.	IoT Using Arduino	26/09/2018 to 27/09/2018	IV ECE
18.	Guest Lecture on Electromagnetic Theory & Transmission lines (EMTL)	26/9/18	III-I-ECE
19.	Guest Lecture on Embedded System Design (ESD)	26/9/18	IV-I-ECE
20.	Guest Lecture on Signal and Stochastic Process (SSP)	23/10/18	II-I-ECE

21.	Guest Lecture on Digital Communications (DC)	24/10/18	III-I-ECE
22.	Seminar on Career Guidance	26/10/2018	IV ECE
23.	Seminar on Cellular Mobile Communication	29-10-2018 to 30-10-2018	II ECE
24.	Technical Poster Presentation	29/10/2018	II/III/IV ECE
25.	Guest Lecture on Network Analysis (NA)	05/11/18	II-I-ECE
26.	Guest Lecture on Digital Image Processing (DIP)	03/11/18	IV-I-ECE

ACADEMIC YEAR 2017-18

Sl.No	Title of Workshop/Seminar	Date	Target Audience
1.	Seminar on 3-D Printing	3/1/2017	IV ECE
2.	Social Activity on Asset Mapping	28/04/2017	III ECE
3.	Workshop on Embedded System on ARDUINO with IoT	20/09/2017 to 21/09/2017	IV ECE
4.	Workshop on PCB Design and Fabrication	1/04/2016 to 2/04/2016	IV ECE
5.	Seminar on Digital Image Processing	26/09/2016	III/IV ECE
6.	Workshop on Open Hardware	1/04/2016 to 2/04/2016	II/III/IV ECE

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

Sl. No	Year	Name of the Publication of Technical Magazines/Newsletters	Month of publication
1.	2020	**KGRCET ECE E-NEWS LETTER Volume –** (http://kgr.ac.in/wp- content/uploads/2020/02/News-Letter-Jan_Issue.pdf)**8**	January
2.	2019	**KGRCET ECE E-NEWS LETTER Volume –** (http://kgr.ac.in/wp- content/uploads/2020/02/News-Letter-Jan_Issue.pdf)**7**	July
3.	2019	**KGRCET ECE E-NEWS LETTER Volume – 6** (http://kgr.ac.in/wp- content/uploads/2020/02/News-Letter-	January

		Jan_Issue.pdf)	
4.	2018	**KGRCET ECE E-NEWS LETTER Volume – 5** (http://kgr.ac.in/wp- content/uploads/2020/01/DEC-2019-News_Lettter_in_pdf-1.pdf)	July
5.	2018	**KGRCET ECE E-NEWS LETTER Volume – 4 (http://kgr.ac.in/wp- content/uploads/2020/01/News-Letter-_November-2019-Issue-1- 5.pdf)**	January
6.	2017	**KGRCET ECE E-NEWS LETTER Volume –3 (http://kgr.ac.in/wp- content/uploads/2020/01/News-Letter-October-2019-Issue-10-1- 4.pdf)**	July
7.	2017	**KGRCET ECE E-NEWS LETTER Volume –2 (http://kgr.ac.in/wp- content/uploads/2020/01/News-etter-September-2019-Issue-9-1- 4.pdf)**	January
8.	2016	**KGRCET ECE E-NEWS LETTER Volume –1** (http://kgr.ac.in/wp- content/uploads/2020/01/News_Letter-August_2019-Issue-1-5.pdf)	July

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

Participation in inter-institute events by students of the program of study (outside the state):

Sl. NO	USN	NAME OF THE STUDENT	EVENT	PLACE	DATE	OUTCOME
1.	19QM5A0412	Sai Krishna	State Level Engineering Premier League	CVR Hyderabad	2020-2021	Certificate of Participation
2.	17QM1A0411	Deepak Kumar Seth	Online course Interactivity with Java script	University of MICHIGAN	08/6/2020	Certificate of Completion
3.	18QM1A0469	M.Vishnuvard2han	Webinar on Brain controlled Robot Design	NITK-STEP-Pantech solutions	6/6/2020	Certificate of Participation
4.	18QM1A0469	M.Vishnuvardh3an	Webinar on Brain computer interface	NITK-STEP-Pantech solutions	5/6/2020	Certificate of Participation
5.	18QM1A0406	A Bhargav	Online course on Linux Server Management and Security	University of Colorado	02/06/2020	Certificate of Completion
6.	18QM1A0406	A Bhargav	Introduction to Cyber security course	Cisco networking academy	30/5/2020	Course Completion
7.	18QM1A0469	M.Vishnuvardhan	Webinar on Conversational BOT Design	IETE Mumbai-pantech solutions	30/5/2020	Certificate of Participation
8.	18QM1A0406	A Bhargav	Introduction to Cyber security course	Cisco networking academy	30/5/2020	Course Completion
9.	18QM1A0469	M.Vishnuvardhan	Webinar on Conversational BOT Design	IETE Mumbai-pantech solutions	30/5/2020	Certificate of Participation

10.	18QM1A0406	A Bhargav	Online course on Cryptography I	Stanford/Online	29/05/2020	Certificate of Completion
11.	18QM1A0413	B Praveen Kumar	Webinar on AI for Employee Attribution.	Adhiyamaan college of engineering Pantech solutions	29/5/2020	Certificate of Participation
12.	18QM1A0406	A Bhargav	Online course on Cryptography I	Stanford/Online	29/05/2020	Certificate of Completion
13.	18QM1A0413	B Praveen Kumar	Webinar on AI for Employee Attribution.	Adhiyamaan college of engineering Pantech solutions	29/5/2020	Certificate of Participation
14.	17QM1A0429	M Akhila	Webinar on Future of AI	IETE Mumbai-pantech solutions	20/5/2020	Certificate of Participation
15.	18QM1A0481	P Bhavana Reddy	Open Essay Competition on Thought Warriors against COVID 19	Ahmedabad 2019-2020	20/5/2020	Certificate of Participation
16.	18QM1A0469	M.Vishnuvardhan	Webinar on modeling and design of low-cost group IV-based photo detector	Vaagdevi Engineering college	16/5/2020	Certificate of Participation
17.	17QM1A0411	Deepak Kumar Seth	Online course on Introduction to HTML5	University of MICHIGAN	14/5/2020	Course Completion
18.	18QM1A0413	B Praveen Kumar	Online course on Career edge “KNOCKDOWN THE LOCKDOWN	TCS-ion, Hyderabad	10/5/2020	Course Completion

			”			
19.	18QM1A0406	A Bhargav	Online course on Programming for everybody (Python)	University of MICHIGAN	08/04/2020	Course Completion

20.	19QM1A0417	D Surya Karthik	Train the Trainer	Rotary Club of Bangalore	21/4/2020 to 22/4/2020	Certificate of Participation
21.	18QM1A0419	Buddida Prashanth Mudiraj	10th Bharatiya Chhatra Sansad Vigyan Bhavan	Delhi 2019-20	20/2/2020 to 23/2/2020	Certificate of Participation
22.	18QM1A0430	Goli Sai Vamshi Reddy	10th Bharatiya Chhatra Sansad Vigyan Bhavan	Delhi 2019-20	20/2/2020 to 23/2/2020	Certificate of Participation
23.	18QM1A0408	A. Angajala Rahul	10th Bharatiya Chhatra Sansad Vigyan Bhavan	Delhi 2019-20	20/2/2020 to 23/2/2020	Certificate of Participation
24.	18QM1A0499	T Mahendar Reddy	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
25.	16QM1A0402	B Tarun Kumar	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
26.	16QM1A0428	P Naresh Phokran	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation

27.	16QM1A04	Bhuvan Satya Sai	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
28.	16QM1A0401	Balusani Manoj Kumar	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
29.	16QM1A0410	Gongati Rashmitha	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
30.	16QM1A0412	Gayathri Padma Kumari	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
31.	16QM1A0426	P Samara Simha Reddy	VLSI Design Using Verilog HDL- webinar Maven Silicon	Bangalore 2019-20	9/9/2019	Certificate of Participation
32.	14QM1AO420	G. Vikram Reddy	Global Innovation & Entrepreneurship	Hubli	28/12/2016 to 09/01/2017	Certificate of Participation
33.	16QM1AO409	Gavvala Pavan Kumar	A One Day Workshop on Gaming Hackathon	PACE Andhra Pradesh	04/10/2018	Certificate of Participation

			s			
34.	16QM1A0404	Cheguri Sai Teja	A One Day Workshop on Gaming Hackathons	PACE Andhra Pradesh	04/10/2018	Certificate of Participation
35.	18QM1A0411	Balguri Rahul	PCB Design Fundamentals	CIET, Guntur AP	5/08/2019 to 7/08/2019	Certificate of Participation
36.	18QM1A0419	Budida Prashanth	PCB Design Fundamentals	CIET, Guntur AP	5/08/2019 to 7/08/2019	Certificate of Participation
37.	17QM1A0557	Mamidi Madhu	A Three-Day Workshop on "PCB Design	CIET, Guntur AP	19/08/2019 to 21/08/2019	Certificate of Participation

38.	17QM1A0575	Renukuntla Rahul	A Three-Day Workshop on "PCB Design	CIET, Guntur AP	19/08/2019 to 21/08/2019	Certificate of Participation
39.	17QM1A0580	Sarikonda Naveen Reddy	A Three-Day Workshop on "PCB Design	CIET, Guntur AP	19/08/2019 to 21/08/2019	Certificate of Participation
40.	16QM1A0421	M Manikanta Reddy	A Two-Day Workshop on MATLAB Made Easy	CIET, Guntur AP	6/8/2018 to 7/8/2018	Certificate of Participation
41.	16QM1A0409	Gavvala Pavan Kuma	A Two-Day Workshop on MATLAB Made Easy	CIET, Guntur AP	6/8/2018 to 7/8/2018	Certificate of Participation
42.	16QM1A0432	Rajput Aditya Singh	A Two-Day Workshop on MATLAB Made Easy	CIET, Guntur AP	6/8/2018 to 7/8/2018	Certificate of Participation
43.	16QM1A0435	S Sai Srivasthava Naidu	A Two-Day Workshop on MATLAB Made Easy	CIET, Guntur AP	6/8/2018 to 7/8/2018	Certificate of Participation
44.	16QM1A0401	Balusani Manoj Kumar	Two Day workshop on PCB Design and Fabrication	CIET, Guntur AP	12/04/2018 to 13/04/2018	Certificate of Participation
45.	16QM1A0410	Gongati Rashmitha	Two Day workshop on PCB Design and Fabrication	CIET, Guntur AP	12/04/2018 to 13/04/2018	Certificate of Participation
46.	16QM1A0412	Gayathri Padma Kumari	Two Day workshop on PCB Design	CIET, Guntur	12/04/2018 to 13/04/20	Certificate of Participati

			and Fabrication	AP	18	on
47.	16QM1A0426	P Samara Simha Reddy	Two Day workshop on PCB Design and Fabrication	CIET, Guntur AP	12/04/2018 to 13/04/2018	Certificate of Participation

Participation in inter-institute events by students of the program of study (within the state):

S. NO	USN	NAME OF THE STUDENT	EVENT	PLACE	DATE	OUTCOME
1.	18QM1A04A2	V. Pranathi	Online quiz on Electromagnetic fields and waves	VITS Karimnagar	18/06/2020	Certificate of Participation
2.	19QM5A0409	Mohammed Abdul Majeed Khan	Online Quiz on Electromagnetic Fields and Waves	VITS Karimnagar	18/6/2020	Score 55%
3.	18QM1A0493	S Mythri	Online quiz on Electromagnetic fields and waves	VITS Karimnagar	17/06/2020	Certificate of Participation
4.	17QM1A0441	S Vignatha	Project based online course on Machine learning using Python	Skyfi and Roboversity	16/6/2020	Completion of online course
5.	17QM1A0429	Akhila Mitta	Project Based online Course on Machine Learning	Skyfi Labs	16/6/2020	Certificate of Course completion
6.	18QM1A0487	Rajeswari. PSVR	Online quiz on Electromagnetic fields and waves	VITS Karimnagar	16/6/2020	Certificate of Participation
7.	17QM1A0441	S Vignatha	Webinar on application design of brain computer	ADAMAS University-PANTEC	13/06/2020	Certificate of Participatio

			interface	H		n

8.	18QM1A0481	P Bhavana Reddy	Online Quiz on Power Systems	Vaageswari College of Engineering Karimnagar 2019-20	9/6/2020	Certificate of Participation
9.	17QM1A0441	S Vignatha	Webinar on Brain controlled robot design	NITK-PANTECH	06/06/2020	Certificate of Participation
10.	17QM1A0441	S Vignatha	Webinar on Brain computer interface	NITK-PANTECH	05/06/2020	Certificate of Participation
11.	17QM1A0441	S Vignatha	Online quiz on LICA	VIMT, Hyderabad	1/6/2020	Certificate of Participation
12.	17QM1A0441	S Vignatha	Quiz on Machine Learning	GRIET Hyderabad 2019-20	1/6/2020	Certificate of Participation
13.	18QM1A0479	P. Hanusha	Crash Course on Logical Reasoning	CURSA	01/06/2020	Course completion certificate
14.	19QM5A0403	B Pooja	Quiz on Fundamentals of Analog Electronics	KITS Warangal 2019-20	1/6/2020	Certificate of Appreciation
15.	18QM1A04A5	B. Sai Venkata Krishna	Quiz on Fundamentals of Analog Electronics	KITS Warangal 2019-20	1/6/2020	Certificate of Appreciation
16.	18QM1A0487	PSVR Rajeswari	Quiz on Machine Learning	GRIET Hyderabad 2019-20	1/6/2020	Certificate of Participation
17.	18QM1A0487	PSVR Rajeswari	Quiz on Fundamentals of Analog Electronics	KITS Warangal 2019-20	1/6/2020	Certificate of Appreciation
18.	19QM1A0417	D Surya Karthik	Connect-Chancellor	E&T, JNTUH	May 2020	Certificate of Participation

19.	17QM1A0441	S Vignatha	Webinar on conversational BOT design	IETE-Mumbai	30/05/2020	Certificate of Participation
20.	18QM1A0479	P. Hanusha	Poster Presentation on Post lockdown precautions	Joginpally B.R. Engineering College	27/5/2020	Certificate of Participation
21.	17QM1A0411	DEEPAK KUMAR SETH	The complete cyber security & Hacking course	Online Course	18/05/2020	Course completion certificate
22.	17QM1A0416	KOTHAPALLY SAI KRISHNA REDDY	The complete cyber security & Hacking course	Online Course	18/05/2020	Course completion certificate
23.	18QM1A0482	P. Manoj	J Query tutorial course	SOLO LEARN	01/05/2020	Course completion certificate
24.	17QM1A0454	R YASHWANTH	International Education Fair	Online	17/4/2020	Certificate of Participation
25.	18QM1A0482	P. Manoj	HTML fundamental course	SOLO LEARN	30/04/2020	Course completion certificate
26.	18QM1A0482	P. Manoj	Python 3 tutorial course	SOLO LEARN	29/04/2020	Course completion certificate
27.	18QM1A0482	P. Manoj	JAVA Script tutorial course	SOLO LEARN	27/04/2020	Course completion certificate
28.	18QM1A0487	S Vignatha	Course on data science architecture	iNeuron	01/04/2020 to 01/05/2020	Course completion certificate

29.	17QM1A0441	S Vignatha	Course on Tableau Masters	iNeuron	01/04/2020 to 01/05/2020	Course completion certificate
30.	17QM1A0441	S Vignatha	Course on Power BI masters	iNeuron	01/04/2020 to 01/05/2020	Course completion certificate
31.	17QM1A0441	S Vignatha	Course on Python for data science	iNeuron	01/04/2020 to 01/05/2020	Course completion certificate
32.	18QM1A0479	P. Hanusha	Pledge to Covid-19	WHO	28/03/2020	Certificate of Participation
33.	18QM1A0479	P. Hanusha	Pledge to 'stay at home, save lives'	MEIT, Government of India	28/03/2020	Certificate of Participation
34.	18QM1A0419	Buddida Prashanth Mudiraj	10th Bharathiya Chhatra Sansad	MIT Peace world University New Delhi	20/02/2020 to 23/2/2020	Certification of participation
35.	18QM1A0430	Goli Sai Vamshi Reddy	10th Bharathiya Chhatra Sansad	MIT Peace world University New Delhi	20/02/2020 to 23/2/2020	Certification of participation
36.	18QM1A0450	Kothlapuram Vishnu Vardhan	10th Bharathiya Chhatra Sansad	MIT Peace world University New Delhi	20/02/2020 to 23/2/2020	Certification of participation
37.	18QM1A0408	A. AngajalaRahul	10th Bharathiya Chhatra Sansad	MIT Peace world University New Delhi	20/02/2020 to 23/2/2020	Certification of participation
38.	18QM1A0455	Sai Krishna Reddy	10th Bharathiya Chhatra Sansad	MIT Peace world University New Delhi	20/02/2020 to 23/2/2020	Certification of participation
39.	17QM1A04	P Mahesh	State Level Engineering Premier League	Hyderabad	04/01/2020	Certificate

	32		(Cricket) CVR College of Engineering	2019-20		of Participation
40.	16QM1A0428	P Naresh Phokran	State level program on Telangana ku Haritha Haram	JNTUH NSS cell	30/08/2020	Certificate of Participation
41.	18QM1A0455	Sai Krishna	State Level Engineering Premier League (Volley Ball) CVR College of Engineering	Hyderabad 2019-20	04/01/2020	Certificate of Participation
42.	19QM5A0411	Babitha Yadav	32nd South Zone Aquatic Championship-2019, Swimming and Waterpolo Events	Hyderabad 2019-20	3/1/2020 to 5/1/2020	Certificate of Appreciation
43.	17QM1A0442	S Nikitha	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
44.	17QM1A0428	M Bhanu	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation

45.	17QM1A0420	K Naga Surendra	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
46.	17QM1A0443	T Sai Charan	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
47.	17QM1A0449	V Vishwanadh	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
48.	17QM1A0429	M Akhila	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
49.	17QM1A0418	K Sai Poojitha	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation
50.	17QM1A0427	M Dilip	36 Hours State Level Hackathon on Artificial Intelligence for Agriculture With J-HUB, JNTUH, MLRIT	Hyderabad 2019-20	3/1/2020 to 4/1/2020	Certificate of Participation

51.	16QM1A0428	Naresh Phokran	State level program on Telangana ku Haritha Haram	JNTUH NSS	04/09/2019	Certificate of Participation
52.	16QM1A0428	P. Naresh Phokran	State level ku Haritha Haram	JNTUH NSS Cell	25/03/2019 to 29/03/2019	Certificate of Recognized
53.	18QM1A0491	S Nikhil Teja	Digital Circuits online course	NPTEL	01/07/2019 TO 01/10/2019	Course Completion certificate
54.	16QM1A0428	P. Naresh Phokran	5 Days Workshop on Robotics	KGRCET	25/03/2019 to 29/03/2019	Certificate of Participation
55.	16QM1A0442	V. Sudhir Goud	5 Days Workshop on Robotics	KGRCET	25/03/2019 to 29/03/2019	Certificate of Participation
56.	18QM1A0493	S Mythri	Project based assignment	KGRCET	24/01/2019	Certificate of Participation
57.	18QM1A0487	Rajeswari PVSR	Poster presentation	KGRCET	24/01/2019	Certificate of Participation
58.	18QM1A0487	Rajeswari PVSR	Project based assignment	KGRCET	24/01/2019	Certificate of Participation
59.	18QM1A0479	P. Hanusha	Project based assignment	KGRCET	24/01/2019	Certificate of Participation
60.	18QM1A0479	P. Hanusha	Poster presentation	KGRCET	21/09/2019	Certificate of Participation

61.	16QM1A0428	P. Naresh Phokran	Eco friendly Ganesh Worksshop-19	TS State Bio - diversity Board	01/09/2019	Certificate of Participation
62.	19QM1A0417	D. Surya Karthik	Smart City Hackathon	JNTUH under TEQIP-III	13/12/2019 To 14/12/2019	Certificate of Participation
63.	18QM1A0473	Nakkapally Narendra	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
64.	19QM5A0412	Yeligeti Sai Kiran	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
65.	18QM1A0472	Nadiminti Sai Kumar	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
66.	18QM1A0499	Tummeti Mahendar Reddy	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
67.	19QM5A0402	Bathula Yeshwanth	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
68.	18QM1A0469	Munaganuri Vishnuvardhan	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
69.	18QM1A04A1	Vadakattu Rakesh	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
70.	19QM5A0404	Dharmannagari Vishnuvardhan Reddy	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
71.	18QM1A0479	Pavuluri Hanusha	Start and Improve Your Business (SIYB), MSME, Hyderabad	2019-20	23/12/2019 to 27/1/2020	Certificate of Participation
72.	18QM1A0479	P. Hanusha	SIYB	MHRD	23/12/2019 TO 27/01/202	Certificate of Participation

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73.	16QM1A0442	V. Sudhir Goud	The Role of AI/ML in Development of Society	IETE Hyderabad	2/11/2019	Certificate of Participation
74.	16QM1A0428	P. Naresh Phokran	Design Your Destiny	KGRCET	22/09/2020	Certificate of Participation
75.	19QM5A0406	K Manasa	Poster presentation	KGRCET	21/09/2019	Certificate of Participation
76.	18QM1A0404	A. Nagalakshmi	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	Certificate of Participation
77.	19QM5A0406	Kammari Manasa	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	Certificate of Participation
78.	18QM1A0499	T Mahendar Reddy	National Service Scheme Mock Youth Parliament JNTUH	Hyderabad 2019-20	4/9/2019	Certificate of Participation

79.	18QM1A0499	T Mahendar Reddy	Telangana State Biodiversity Board Eco- friendly Ganesh Workshop-2019	Bakaram, RR District, Hyderabad 2019-20	1/9/2019	Certificate of Participation
80.	18QM1A0499	T Mahendar Reddy	Telangana State Biodiversity Board Clay Ganesh Workshop-2019	Bakaram, RR District, Hyderabad 2019-20	31/8/2019	Certificate of Participation
81.	15QM1A0449	M. Sri Krishna	Phoenix-19 National Level Sports Fest (Basketball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
82.	15QM1A0485	W. Bharath Raj	Phoenix-19 National Level Sports Fest (Basketball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
83.	18QM1A0444	Hemanth	Phoenix-19 National Level Sports Fest (Basketball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
84.	16QM5A0404	Uday Kumar	Phoenix-19 National Level Sports Fest (Volleyball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
85.	17QM1A0416	K. Sai Krishna	Phoenix-19 National Level Sports Fest (Volleyball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
86.	17QM1A0427	Dileep	Phoenix-19 National Level Sports Fest (Volleyball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
87.	15QM1A0447	G. Vishwanath	Phoenix-19 National Level Sports Fest (Volleyball)	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of Participation
88.	15QM1A0450	N. Nithish Reddy	Phoenix-19 National Level Sports Fest	VJIT, Hyderabad	2/4/2019 to 3/4/2019	Certificate of

			(Volleyball)			Participation
89.	16QM1A0442	V. Sudhir Goud	Telangana State Pollution Control Board Clay Ganesh Workshop	JNTUH	31/8/2019	Certificate of Participation
90.	15QM1A0427	JyothirmayBarua	Investor connect session held at E-SUMMIT HYDERABAD	Hyderabad 2018-19	21/08/2018 to 22/08/2018	Project has been shortlisted
91.	15QM1A0431	K.V. Subba Reddy	Investor connect session held at E-SUMMIT HYDERABAD	Hyderabad 2018-19	21/08/2018 to 22/08/2018	Project has been shortlisted
92.	17QM1A0434	Rakesh Ramavath	DST-Sponsored National Level Seminar, on Sensor Networks, Internet of Things (IoT), Internet of Everything VJIT, Hyderabad	Hyderabad 2019-20	8/8/2019 to 10/8/2019	Certificate of Participation
93.	16QM1A0418	Konijeti Venkatesh	8th National Level Inter Engineering Collegiate Sports, VJIT, Hyderabad	Hyderabad 2018-19	2/4/2019 to 3/4/2019	Certificate of Participation
94.	16QM1A0442	V. Sudhir Goud	Open Govt. Data Hackathon	National Informatic Center IAMAI, Hyderabad	4/11/2017 to 5/11/2017	Certificate of Participation

95.	15QM1A0459	P Mounika	Workshop on IUCEE EPICS	MLRIT, Hyderabad 2018-19	10/07/2017	Certificate of Participation
96.	15QM1A0434	K Harindra Nath	Workshop on IUCEE EPICS	MLRIT, Hyderabad 2018-19	10/07/2017	Certificate of Participation
97.	16QM1A0442	V. Sudhir Goud	National Level Youth Meet on Safe Water for Future	MREC, Hyderabad	20/3/2017 to 21/3/2017	Certificate of Participation
98.	16QM1A0442	V. Sudhir Goud	One Week Youth Leadership Training on SD Goals	JNTUH	09/03/2017 to 14/03/2017	Certificate of completion
99.	15QM1A0429	K. Vinay Chary	Sports Coaching Foundation	BSRIT Hyderabad	2016-2017	Certificate of Participation
100.	15QM1A0426	J. Poojitha	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
101.	15QM1A0406	Divya	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
102.	15QM1A0405	A. Mounika	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
103.	15QM1A0402	A. Raju	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
104.	15QM1A0435	K. Aishwarya	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
105.	14QM1A04	P. Navya Reddy	Oscad training	2016-17	1/7/2016	Certificate

	38		at KGRCET			of Participation
106.	14QM1A0428	L. Mayur	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
107.	14QM1A0420	G. Vikram Reddy	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
108.	14QM1A0408	B. Pavan Kumar Reddy.	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
109.	14QM1A0411	Bhavani	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
110.	13QM1A0466	S. Srinija	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
111.	13QM1A0416	CH. Bhargavi	Oscad training at KGRCET	2016-17	1/7/2016	Certificate of Participation
112.	19QM5A0411	S. Babitha	International Day of Yoga-NCC	2018	21/6/2018	Certificate of Participation
113.	15QM1A0420	Vinaya Lakshmi	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation
114.	12QM1A0444	P Rahul	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation
115.	13QM5A0405	Divya Sri Jayanthi	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation

116.	12QM1A0455	Sangam Sahil Keerthi	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation
117.	12QM1A0458	Teja Thota	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation
118.	12QM1A0447	Aswini Patlolla	Microsoft Technology Associate	2016-17	13/1/2016	Certificate of Participation
119.	12QM1A0416	Gara Mani Chandra	Microsoft Technology Associate	2016-17	12/1/2016	Certificate of Participation

120.	19QM1A0417	D. Surya Karthik	National Essay Writing Competition	KGRCET	27/1/2020	Marks obtain 74/100
121.	16QM1A0442	V. Sudhir Goud	State Level Telangana ku Haritha Haram	Gram Panchayath Office, Bakaram	30/8/2019 to 5/9/2019	Certificate of Recognition
122.	18QM1A0493	S Mythri	Poster Presentation	KGRCET	21/09/2019	2nd Position
123.	18QM1A0487	Rajeswari PVSR	Poster presentation	KGRCET	21/09/2019	2nd Position
124.	18QM1A04A2	V. Pranathi	Poster presentation	KGRCET	21/09/2019	2nd Position
125.	18QM1A0410	Avusula Sadwik Chary	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
126.	18QM1A0493	S Mythri	Poster Presentation	KGRCET	21/09/2019	2nd Position
127.	18QM1A0487	Rajeswari PVSR	Poster presentation	KGRCET	21/09/2019	2nd Position
128.	18QM1A04A2	V. Pranathi	Poster presentation	KGRCET	21/09/2019	2nd Position
129.	18QM1A0410	Avusula Sadwik Chary	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
130.	18QM1A0493	S Mythri	Poster Presentation	KGRCET	21/09/2019	2nd Position
131.	18QM1A0487	Rajeswari PVSR	Poster presentation	KGRCET	21/09/2019	2nd Position
132.	18QM1A04A2	V. Pranathi	Poster presentation	KGRCET	21/09/2019	2nd Position
133.	18QM1A0410	Avusula Sadwik Chary	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
134.	18QM1A0493	S Mythri	Poster Presentation	KGRCET	21/09/2019	2nd Position
135.	18QM1A0487	Rajeswari PVSR	Poster presentation	KGRCET	21/09/2019	2nd Position
136.	18QM1A04A2	V. Pranathi	Poster presentation	KGRCET	21/09/2019	2nd Position

137.	18QM1A0410	Avusula Sadwik Chary	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
138.	18QM1A0444	Kanjarla Hemanth Kumar	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
139.	18QM1A0481	Pittu Bhavana Reddy	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	1st Position
140.	18QM1A0465	Morse Sathvika Reddy	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	1st Position
141.	17611A0401	Koukuntla Akshaya	Poster presentation of Technophelia Organized by ELITE	KGRCET	21/09/2019	2nd Position
142.	18QM1A0479	P. Hanusha	Drawing Competition	KGRCET	06/09/2019	1st Position
143.	16QM1A0428	P. Naresh Phokran	State level program on Telangana ku Haritha Haram	KGRCET	04/09/2020	Certificate of Participation
144.	18QM1A0489	R. Sushma	Drawing competition Organized by ELITE	KGRCET	06/09/2019	Certificate of Participation
145.	16QM1A0428	P. Naresh Phokran	Machine Learning using python	KGRCET	14/07/2019	Certificate of Participation
146.	16QM1A0442	V. Sudhir Goud	Psychometric Assessments Positive Change, Design Your Destiny 3Days Program	KGRCET	22/9/2016 to 24/9/2016	Certificate of Participation

Prizes/awards received in Inter-Institute events by students:

SI NO	USN	NAME OF THE STUDENT	EVENT	PLACE	DATE	PRIZES/AWARDS
1.	18QM1A0406	Ambati Bhargav	Online Quiz on Electromagnetic Fields and Waves	VITS Karimnagar	18/6/2020	Certificate of Appreciation
2.	18QM1A0479	Pavuluri Hanusha	User Experience Design	Dy Patil Engineering College Pune	11/01/2020	Certificate of Appreciation
3.	18QM1A0485	R Shiva Krishna	3 Day Online Student Development Program	LBREC Andhra Pradesh	01/06/2020 to 03/06/2020	Certificate of Appreciation
4.	18QM1A0489	Ratnam Sushma	Online Quiz on Control System	VITS Karimnagar	7/6/2020	Certificate of Appreciation
5.	18QM1A0489	Ratnam Sushma	Online quiz on Fundamentals of analog electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
6.	18QM1A0493	S Mythri	Online quiz on Fundamentals of analog electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
7.	18QM1A0485	R. Shiva Krishna	Online quiz on Fundamentals of Analog Electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
8.	18QM1A0404	A. Nagalakshmi	Online quiz on Fundamentals of Analog Electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
9.	19QM5A0406	Kammari Manasa	Online quiz on Fundamentals	KITS, Warangal	01/06/2020	Certificate of Appreciation

			of Analog Electronics			
10.	19QM5A0406	K Manasa	Online quiz on Fundamentals of analog electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
11.	18QM1A0404	A Nagalakshmi	Online quiz on Fundamentals of analog electronics	KITS, Warangal	01/06/2020	Certificate of Appreciation
12.	17QM1A0414	J Karthik	Webinar for Career option after engineering	PACE Engineering College, Andhra Pradesh	30/05/2020	Certificate of Appreciation
13.	17QM1A0422	Kowkuntla Lokesh Reddy	Webinar for Career option after engineering	PACE Engineering College, Andhra Pradesh	30/05/2020	Certificate of Appreciation
14.	17QM1A0429	M Akhila	Poster Presentation on Post lockdown precautions	Joginpally B.R. Engineering College	27/5/2020	Certificate of Excellence (3rd place)
15.	17QM1A0441	S Vignatha	Poster Presentation on Post lockdown precautions	Joginpally B.R. Engineering College	27/5/2020	1st prize
16.	17QM1A0427	Mandapaka Dilip	Online Sports Quiz	Mohammed Sathak A J College of Engineering, Chennai	23/05/2020	75% score Certificate of Appreciation
17.	18QM1A0476	P Sai Yeshwanth Reddy	Ethical Hacking Workshop	BITS, Hyderabad	25/1/2020 to 26/1/2020	Certificate Awarded
18.	16QM1A0428	Naresh Phokran	Career Edge - Knockdown the Lockdown	TCS ion, Hyderabad	28/04/2020 to 11/06/2020	Course Completion
19.	18QM1A0479	P. Hanusha	Volunteer for Maker Faire 2019	Maker Faire Hyderabad	10/11/2019	Certificate of Appreciation
20.	16QM1A0428	P Naresh Phokran	Clay Ganesh Worksho	Telangana State Pollution Control Board	31/09/2020	Certificate of Appreciation

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21.	17QM1A0420	K Surendra	PROJECT EXPO	Joginpally B.R. Engineering College	27/5/2020	3rd Position
22.	17QM1A0443	T. Sai Charan	PROJECT EXPO	Joginpally B.R. Engineering College	27/5/2020	3rd Position
23.	17QM1A0449	Vishwanath	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
24.	17QM1A0427	Mandapaka Dilip	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
25.	17QM1A0439	Gangapuri Shiva Kumar	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
26.	17QM1A0430	Mohammed Zubair Khan	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
27.	17QM1A0434	Ramavath Rakesh Naik	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
28.	17QM1A0443	T Sai Charan	Volley Ball	NMREC Hyderabad	14/03/2020	Winners
29.	18QM1A0406	Ambati Bhargav	Poster Presentation on Post lockdown precautions	Joginpally B.R. Engineering College	27/5/2020	Second prize
30.	16QM1A0428	P Naresh Phokran	State Level Program on Telangana Ku Hartitha Haram JNTUH	Bakaram, RR District, Hyderabad 2019-20	30/8/2019 to 5/9/2019	Certificate of Appreciation
31.	16QM1A0431	Pantham Divya	Quiz Competition on Hacking Tools	Lords Engineering College Hyderabad	03/10/2019	2nd Position
32.	17QM1A0421	Kondoju Shiva Sai Charan	Quiz Competition on Hacking Tools	Lords Engineering College Hyderabad	03/10/2019	2nd Position
33.	17QM1A0408	C Sai Deeksha Sagar	Quiz Competition on Hacking	Lords Engineering College Hyderabad	03/10/2019	2nd Position

			Tools			
34.	18QM1A0499	T Mahendar Reddy	State Level Program on Telangana Ku Hartitha Haram JNTUH	Bakaram, RR District, Hyderabad 2019-20	30/8/2019 to 5/9/2019	Certificate of Appreciation
35.	18QM1A0428	Gangula Shreya	Android Apps Developm ent	DY Patil Engineering College, Pune	17/06/2019 To 22/06/2019	Certificate of Appreciation
36.	18QM1A0431	Golla Nikhila	Android Apps Developm ent	DY Patil Engineering College, Pune	17/06/2019 To 22/06/2019	Certificate of Appreciation
37.	18QM1A0499	T Mahendar Reddy	Inter & Intra Collage Elocution Competition	Hyderabad 2019-20	01/06/2019	Certificate of Appreciation
38.	16QM1A0428	P. Naresh Phokran	Inter University Exchange Programme	KITS WARANGAL	9/03/2020 to 11/03/2020	Certificate of Appreciation
39.	16QM1A0442	V. Sudhir Goud	Blood Donation	SLMS Hospital & Blood Bank	22/1/2019	Certificate of Appreciation
40.	17QM1A0433	Pasupula Mahesh	Web Design Contest	Lords Engineering College Hyderabad	08/08/2019	Second Prize
41.	16QM1A0418	Konijeti Venkatesh	Internatio nal Badmint on Federatio n	Hyderabad, Telangana	15/01/2019	LINE JUDGE Certification
42.	18QM1A0479	P. Hanusha	Karate Participation	International Karate	9/01/2019	2nd Prize
43.	19QM5A0412	Y. Sai Kiran	Industrial training	Karim Nagar	03/11/2018 to /04/05/2019	Course completion
44.	18QM1A0415	Bobbili Arun Kumar	Quiz Competition on Hacking Tools	Lords Engineering College Hyderabad	03/10/2019	Second prize
45.	16QM1A0431	R Simran	Paper Presentati on on 3G	VJIT Hyderabad	18/3/2019	Second prize

46.	18QM1A0420	C Bharath	Technical Quiz	Lords Engineering College Hyderabad	18/2/2019	Winner
47.	16QM1A0426	P Samara Simha Reddy	Paper Presentation on 3G	VJIT Hyderabad	18/32019	Best Performance
48.	18QM1A0411	Balguri Rahul	Technical Quiz	Lords Engineering College Hyderabad	18/2/2019	Winner
49.	16QM1A0421	M Manikanta Reddy	Paper Presentation on 3G	VJIT Hyderabad	18/32019	Best Performance
50.	18QM1A0429	Godi Vasantha	Dance Competition	VJIT Hyderabad	27/03/2019 to 28/03/2019	Third Prize
51.	15QM1A0431	K.V. Subba Reddy	Intershala Student Partner (ISP)	Hyderabad 2018-19	19/9/2018 to 15/11/2018	Appointed as Intershala student partner (ISP)
52.	16QM1A0418	Konijeti Venkatesh	40th Inter-state Zonal & junior National Badminton Championship	Jaipur, Rajasthan	30/11/2017 to 06/12/2017	U, 19 Winner
53.	16QM1A0416	Kakulapati Sesha Srivalli	Quiz Competition on C	Lords Engineering College Hyderabad	10/08/2017	First Prize
54.	16QM1A0442	V. Sudhir Goud	Blood Donation	Himabindu Blood Bank Hyderabad	20/1/2017	Certificate of Appreciation
55.	17QM1A0422	Kowkuntla Lokesh Reddy	Body Building	Mr. Telangana Open Body Building Championship 2018	2017-2018	Second Prize
56.	16QM1A0425	Mulakala Bhuvana Satya Sai	Project Expo on IoT	Lords Engineering College Hyderabad	12/02/2018	Second Prize
57.	18QM1A0466	Mudhavath Pavan Nayak	Body Building	Mr. Telangana Open Body Building Championship 2018	2017-2018	Second Prize

58.	18QM1A0463	Mohammed Inzamam Uddin	Body Building	Mr. Telangana Open Body Building Championship 2018	2017-2018	Second Prize
59.	16QM1A0428	P. Naresh Phokran	One Week Youth Leadership Training	JNTUH NSS	09/03/2017 to 14/03/2017	Certificate Completion
60.	18QM1A0425	Earra Aishwarya	Kho-Kho (Women)	JNTUH	02/05/2016	Certificate of Merit
61.	17QM1A0445	N. Mamatha	Kabbadi	JNTUH	6/4/2015	Certificate of Merit

5. FACULTY INFORMATION AND CONTRIBUTIONS (200)

Academic Year: 2019-20

S. No.	Name	Qualification	PAN No.	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)	Currently Associated (Y/N)	If contractual mention Full time or Part time	Date of Leaving (In case Currently Associated is "No")
1.	Dr Anil N Rakhonde	Ph. D	ACZPR8746B	19-01-2019	Electronics Engineering	Professor	09.05.2019	01.07.2019	Regular	Y	-	-
2.	Dr Rohit Kandakatla	Ph. D	DKOPK6629M	04-05-2019	Engineering Education	Associate Professor	02.03.2015	01.07.2019	Regular	Y	-	-
3.	Dr D Chandra Prakash	Ph. D	BCUPD6497H	13-07-2019	Image Processing	Associate Professor	02.08.217	15.07.2019	Regular	Y	-	-
4.	Dr B Vandana	Ph. D	AWNPP3111E	06-08-2018	Electronics	Associate Professor	10.08.2018	10.08.2018	Regular	Y	-	-
5.	Mr. M N Narsaiah	M.Tech , (Ph. D)	AOBPM0374G	31-12-2011	VLSI System Design	Assistant Professor	05.07.2013	-	Regular	Y	-	-
6.	Mr. Vijaya Bhasker	M.Tech	BPSPR7333M	22-02-2016	Embedded Systems	Assistant Professor	29.02.2016	-	Regular	Y	-	-

	Reddy											
7.	Mr. Anil Kumar Bhupati	M.Tech	BQXPB0079G	20-08-2011	Digital Systems & Signal Processing	Assistant Professor	15.07.2010	-	Regular	Y	-	-
8.	Ms. Deepika Ainapur	M.Tech	ASAPA3127C	17-09-2014	Digital Electronics	Assistant Professor	18.09.2014	-	Regular	Y	-	-
9.	Ms. Gayatri Tangirala	M.Tech	AMRPT4316P	29-11-2014	VLSI System Design	Assistant Professor	19.06.2014	-	Regular	Y	-	-
10.	Mr. Angotu Saida	M. Tech	DWUPS8691J	28-01-2011	Electronics & Communication Engineering	Assistant Professor	01.07.2013	-	Regular	Y	-	-
11.	Ms. Pagadala Usha	M.Tech	BTJPP6463R	06-02-2014	VLSI System Design	Assistant Professor	23.12.2013	-	Regular	Y	-	-
12.	Mr. Md Asif	M.Tech	BZJPA2575D	10-01-2012	Embedded Systems	Assistant Professor	01.06.2017	-	Regular	Y	-	-
13.	Ms. Poonam Ganesh	M.E	GERPS9364N	13-12-2017	Digital Communication Engineering	Assistant Professor	30.11.2017	-	Regular	Y	-	-
14.	Mr. Arpit Yadav	M.Tech	ADAPY4736G	26-09-2014	VLSI System Design	Assistant Professor	13.05.2019	-	Regular	Y	-	14.01.2020
15	Mr. Bavusaheb	M. Tech	CLIPK8931K	21-01-2017	VLSI Design & Embedded	Assistant Professor	05.12.2016	-	Regular	Y	-	01.06.2020

	Kunchanur				Systems							
16	Mr. Vikram S Kamadal	M. Tech	CHNPK5227P	05-12-2015	Embedded System & Design	Assistant Professor	02.03.2019	-	Regular	Y	-	31.05.2020
17.	Mr. K Nagaiah	M. Tech, (Ph. D)	AMDPK5951H	20-01-2011	Systems & Signal Processing	Assistant Professor	02.08.2017	-	Regular	Y	-	02.08.2019
18	Mr. Ramesh Penki	M. Tech	BNJPP2346D	06-03-2010	VLSI System Design	Assistant Professor	02.08.2017	-	Regular	Y	-	15.11.2019
19	Mr. M Tejeswara Kumar	M. Tech	BNSPM5193C	29-01-2016	Electronics & Communication Engineering	Assistant Professor	13.12.2019	-	Regular	Y	-	-

Academic Year: 2018-19

S. No.	Name	Qualification	PAN No.	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)	Currently Associated (Y/N)	If contractual mention Full time or Part time	Date of Leaving (In case Currently Associated is "No")
1.	Dr. Manish Kumar Jain	Ph. D	AGCPJ1550E	08-07-2015	Micro Electronics & VLSI Design	Professor	02.08.2017	02.08.2017	Regular	Y	-	07.05.2019
2.	Dr Anil N. Rakhonde	Ph. D	ACZPR8746B	19-01-2019	Electronics Engineering	Associate Professor	09.05.2019	09.05.2019	Regular	Y	-	-
3.	Dr. Pravin Kshirsagar	Ph. D	AYRPK4084H	31-03-2018	Electronics Engineering	Associate Professor	09.05.2019	09.05.2019	Regular	Y	-	-
4	Dr. B Vandana	Ph.D	AWNPP3111E	06-08-2018	Electronics	Associate Professor	10.08.2018	10.08.2018	Regular	Y	-	-
5.	Rohit Kandakatla	M. Tech	DKOPK6629M	20-01-2016	Embedded Systems	Assistant Professor	02.03.2015	-	Regular	Y	-	-
6	Mr. M N Narsaiah	M. Tech, (Ph. D)	AOBPM0374G	31-12-2011	VLSI System Design	Assistant Professor	05.07.2013	-	Regular	Y	-	-

7.	Mr. A Vijaya Bhasker Reddy	M. Tech	BPSPR7333M	22-02-2016	Embedded Systems	Assistant Professor	29.02.2016	-	Regular	Y	-	-
8.	Mr. B Anil Kumar	M. Tech	BQXPB0079G	20-08-2011	Digital Systems & Signal Processing	Assistant Professor	15.07.2010	-	Regular	Y	-	-
9.	Ms. A Deepika	M. Tech	ASAPA3127C	17-09-2014	Digital Electronics	Assistant Professor	18.09.2014	-	Regular	Y	-	-
10.	Ms. T Gayathri	M. Tech	AMRPT4316P	29-11-2014	VLSI System Design	Assistant Professor	19.06.2014	-	Regular	Y	-	-
11.	Mr. Angotu Saida	M. Tech	DWUPS8691J	28-01-2011	Electronics & Communication Engineering	Assistant Professor	01.07.2013	-	Regular	Y	-	-
12.	Ms. Pagadala Usha	M. Tech	BTJPP6463R	06-02-2014	VLSI System Design	Assistant Professor	23.12.2013	-	Regular	Y	-	-
13.	Mr. Bavusaheb BK	M. Tech	CLIPK8931K	21-01-2017	VLSI Design & Embedded Systems	Assistant Professor	05.12.2016	-	Regular	Y	-	-
14.	Ms. P Spandana	M. Tech	CIMPP5563M	23-06-2016	Embedded Systems	Assistant Professor	03.06.2016	-	Regular	Y	-	30.05.2019
15.	Mr. Asif Mohammad	M. Tech	BZJPA2575D	10-01-2012	Embedded Systems	Assistant Professor	01.06.2017	-	Regular	Y	-	-
16.	Mr. K Nagaiah	M. Tech, (Ph. D)	AMDPK5951H	20-01-2011	Systems & Signal	Assistant Professor	02.08.2017	-	Regular	Y	-	-

					Processing							
17.	Ms. Swami Poonam Ganesh	M. Tech	GERPS9364N	13-12-2017	Digital Communication Engineering	Assistant Professor	30.11.2017	-	Regular	Y	-	-
18.	Mr. Ramesh Penki	M. Tech	BNJPP2346D	06-03-2010	VLSI System Design	Assistant Professor	02.08.2017	-	Regular	Y	-	-
19.	Ms. Ma Sohana Parveen	M. Tech	BHUPM7502B	09-11-2013	VLSI System Design	Assistant Professor	04.10.2017	-	Regular	Y	-	18.05.2019
20.	Ms. C Deepika	M. Tech	BGJPC5562M	05-11-2014	Applied Electronics	Assistant Professor	04.10.2017	-	Regular	Y	-	18.05.2019
21.	Mr. D Chandra Prakash	M. Tech, (Ph. D)	BCUPD6497H	31-12-2011	Embedded Systems	Assistant Professor	02.08.2017	-	Regular	Y	-	-
22.	Mr. Aleti Ravichandra	M. Tech	AMCPA2649D	03-04-2013	VLSI & Embedded Systems	Assistant Professor	04.10.2017	-	Regular	Y	-	14.05.2019
23	Ms. K Anusha	M. Tech	AKEPA2233K	07-10-2010	Communication & Signal Processing	Assistant Professor	06.06.2011	-	Regular	Y	-	14.05.2019
24	Mr. Vikram S Kamadal	M. Tech	CHNPK5227P	05-12-2015	Embedded System & Design	Assistant Professor	02.03.2019	-	Regular	Y	-	-
25.	Mr. Arpit Yadav	M.Tech	ADAPY4736G	26-09-2014	VLSI System Design	Assistant Professor	13.05.2019	-	Regular	Y	-	-

Academic Year: 2017-18

S. No.	Name	Qualification	PAN No.	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)	Currently Associated (Y/N)	If contractual mention Full time or Part time	Date of Leaving (In case Currently Associated is "No")
1.	Dr Manish Kumar Jain	Ph. D	AGCPJ1550E	08-07-2015	Micro Electronics & VLSI Design	Professor	02.08.2017	02-08-2017	Regular	Y	-	-
2.	Mr. M N Narsaiah	M. Tech, (Ph. D)	AOBPM0374G	31-12-2011	VLSI System Design	Assistant Professor	05.07.2013	-	Regular	Y	-	-
3.	Ms. Pagadala Usha	M. Tech	BTJPP6463R	06-02-2014	VLSI System Design	Assistant Professor	23.12.2013	-	Regular	Y	-	-
4.	Mr. Angotu Saida	M. Tech	DWUPS8691J	28-01-2011	Electronics & Communication	Assistant Professor	01.07.2013	-	Regular	Y	-	-

					Engineering							
5.	Ms. T Gayathri	M. Tech	AMRPT4316P	29-11-2014	VLSI System Design	Assistant Professor	19.06.2014	-	Regular	Y	-	-
6.	Mr. B Anil Kumar	M. Tech	BQXPB0079G	20-08-2011	Digital Systems & Signal Processing	Assistant Professor	15.07.2010	-	Regular	Y	-	-
7.	Ms. A Deepika	M. Tech	ASAPA3127C	17-09-2014	Digital Electronics	Assistant Professor	18.09.2014	-	Regular	Y	-	-
8.	Mr. A Vijaya Bhasker Reddy	M. Tech	BPSPR7333M	21-02-2016	Embedded Systems	Assistant Professor	29.02.2016	-	Regular	Y	-	-
9.	Ms. P Spandana	M. Tech	CIMPP5563M	23-06-2016	Embedded Systems	Assistant Professor	03.06.2016	-	Regular	Y	-	-
10.	Mr. Bavusaheb BK	M. Tech	CLIPK8931K	21-01-2017	VLSI Design & Embedded Systems	Assistant Professor	05.12.2016	-	Regular	Y	-	-
11.	Ms. K Usha	M. Tech	CZUPK6248P	15-10-2015	Communication & Signal Processing	Assistant Professor	01.06.2017	-	Regular	Y	-	31-05-2018

12.	Ms. Syed Ayesha Afreen	M. Tech	BSZPA7556F	08-11-2014	Embedded Systems	Assistant Professor	02.06.2017	-	Regular	Y	-	30-04-2018
13.	Mr. ASIF MOHAMMAD	M. Tech	BZJPA2575D	10-01-2012	Embedded Systems	Assistant Professor	01.06.2017	-	Regular	Y	-	-
14.	Ms. Alavelu Uppari	M.Tech	BEZPA4335J	15-03-2012	Image Processing	Assistant Professor	10.07.2017	-	Regular	Y	-	30-04-2018
15.	Mr. K Nagaiah	M. Tech, (Ph. D)	AMDPK5951H	20-01-2011	Systems & Signal Processing	Assistant Professor	02.08.2017	-	Regular	Y	-	-
16.	Mr. D Chandra Prakash	M. Tech, (Ph. D)	BCUPD6497H	31-12-2011	Embedded Systems	Assistant Professor	02.08.2017	-	Regular	Y	-	-
17.	Ms. Tayyabunnissa Begum	M. Tech	AVEPT6058Q	13-12-2013	VLSI System Design	Assistant Professor	29.08.2017	-	Regular	Y	-	17-05-2018
18.	Mr. Ramesh Penki	M. Tech	BNJPP2346D	06-03-2010	VLSI System Design	Assistant Professor	02.08.2017	-	Regular	Y	-	-
19.	Ms. Supriya Goel	M. Tech, (Ph. D)	BOUPG7213N	12-08-2013	Electronics & Communica	Assistant Professor	03.07.2017	-	Regular	Y	-	-

					tion Engineering							
20	Mr. Rohit Kandakatla	M. Tech, (Ph. D)	DKOPK6629M	20-01-2016	Embedded Systems	Associate Professor	02.03.2015	-	Regular	Y	-	-
21.	Ms. K Anusha	M. Tech	AKEPA2233K	07-10-2010	Communication & Signal Processing	Assistant Professor	06.06.2011	-	Regular	Y	-	-
22	Ms. Swami Poonam Ganesh	M. Tech	GERPS9364N	13-12-2017	Digital Communication Engineering	Assistant Professor	30.11.2017	-	Regular	Y	-	-
23	Ms. C Deepika	M. Tech	BGJPC5562M	05-11-2014	Applied Electronics	Assistant Professor	04.10.2017	-	Regular	Y	-	-
24	Ms. M A Sohana Parveen	M. Tech	BHUPM7502B	09-11-2013	VLSI System Design	Assistant Professor	04.10.2017	-	Regular	Y	-	-
25	Mr. Aleti Ravichandra	M. Tech	AMCPA2649D	03-04-2013	VLSI & Embedded Systems	Assistant Professor	04.10.2017	-	Regular	Y	-	-

HOD **PRINCIPAL**

5.1. Student-Faculty Ratio (SFR) (20)

S: F ratio = N/F;

N=No. of students= 3x where x is (approved intake + 20% lateral entry intake+ separate division, if any)

F = No. of faculty = (a + b - c) for every assessment year

A: Total number of full-time regular Faculty serving fully to 2nd, 3rd and 4th year of this program

B: Total number of full-time equivalent regular Faculty (considering fractional load) serving this program from other Program(s)

C: Total number of full time equivalent regular Faculty (considering fractional load) of this program serving other program(s)

No. of UG Programs in the Department (n): 1

No. of PG Programs in the Department (m): Nil

No. of Students in UG 2nd Year=**u1**

No. of Students in UG 3rd Year= **u2**

No. of Students in UG 4th Year= **u3**

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year=**p2**

No. of Students = Sanctioned Intake + Actual Admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +... +UGn + PG1 + …PGm

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S / F

Year	CAY(2019-20)	CAYm1(2018-19)	CAYm2(2017-18)
u1.1	132	62	61
u2.1	62	61	134
u3.1	61	134	124
p1.1	0	0	0
PG1	**p1.1=0**	**p1.1=0**	**p1.1=0**
Total No. of Students in the Department **(S)**	G1 + UG2 +. +UGn + PG1 + …PGn=255	**G1 + UG2 +. +UGn PG1+… + PGn=257**	**UG1 + UG2 +. +UGn + PG1+… + =319**
No. of Faculty in the Department **(F)**	**F1=16**	**F2=21**	**F3=21**
Student Faculty Ratio (SFR)	**SFR1=S1/F1=15.94**	**SFR2= S2/F2=12.24**	**SFR3= S3/F3=15.19**
Average SFR	**SFR=(SFR1+SFR2+SFR3)/3 =(15.94+12.24+15.19)/3=14.46**		

Table B.4

Note: Minimum 75% should be Regular faculty and the remaining shall be Contractual Faculty* as per AICTE norms and standards.

****The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Student Faculty Ratio***

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2019-20)	16	0
CAYm1 (2018-19)	21	0
CAYm2 (2017-18)	21	0

5.2. Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY (2019-20)	1.00	1.00	2.00	3.00	8.00	12
CAYm1 (2018-19)	1.00	1.00	2.00	1.00	8.00	19
CAYm2 (2017-18)	1.00	1.00	3.00	0.00	10.00	20
Average Numbers	1.00	1.00	2.33	1.33	8.67	17.00
Cadre Ratio	26.58					

Cadre Ratio = [(AF1/RF1) + {(AF2/RF2)*0.6} + {(AF3/RF3)*0.4}]*12.5
=26.58

5.3. Faculty Qualification (25) Institute Marks: 16.93 FQ =2.5 x [(10X +4Y)/F)] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Year	Number of Faculty Members with Ph. D (X)	Number of Faculty Members with M. E /M. Tech (Y)	Number of regular Faculty required to comply 20:1 (F)	FQ = 2.5 x [(10X +4Y)/F)]
CAY (2019-20)	4	12	12	18.33
CAYm1 (2018-19)	2	19	12	20
CAYm2 (2017-18)	1	20	15	15.00
Average Assessment	17.78			

5.4. Faculty Retention (25)

No of regular faculties in CAYm1= 2018-2019 and CAY=2019-2020

Item	Marks
of faculty retained during the period of assessment keeping CAYm2 as base year)>=90% of required Faculty members retained during the period of assessment keepingCAYm2 as base year)	**25**
75% of required Faculty members retained during the period of assessment keepingCAYm2 as base year)	**20**
>=60% of required Faculty members retained during the period of assessment keepingCAYm2 as base year)	**15**
>=50% of required Faculty members retained during the period of assessment keepingCAYm2 as base year)	**10**
<<50% of required Faculty members retained during the period of assessment keepingCAYm2 as base year)	**0**

	2017-18	2018-19	2019-20
No of Retained Faculty(x)	N A	16	11
Total Number of faculty(y)	21	21	21
Faculty Retention Ratio(x/y)	N A	76.19	52.38
Average Retention Ratio	64.28		

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

Google Classroom:
Google Classroom is a free suite of productivity tools that includes email, documents, and storage. Classroom was designed collaboratively with faculty members to help them save time, keep classes organized, and improve communication with students.

Canvas Classroom:
Assignment will be paper free and we can easily identify the students who submitted, all kinds of material can be uploaded and viewed by the students, discussions can be held and viewed as online classroom, there will be transparency in grading the assignment.

Multimedia Learning Process:
The faculty members are using multimedia elements LCD projectors that will help the faculties to represent the content in a more meaningful way using different media elements.

Quiz:
A quiz can function throughout a course as an informative feedback device allowing both the instructor and the students to see where they are excelling or need more focus.

E-Learning Resources:
The Videos and E-learning materials are circulated by the course in charges to the students that helps in providing exposure to domain expertise of the faculty members from various reputed institutes like **NPTEL** etc.

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique

Sl. No.	Name of the Faculty	Activity/Innovations	Course		
			2019-2020	2018-2019	2017-2018
1	Dr. Anil N Rakhonde	PPT's & Course Material	LDICA		
2	Dr. D Chandra Prakash	PPT's & Course Material		EST	
3	Dr B Vandana	PPT's & Course Material	ACICD	TSSN	
4	Mr. M N Narsaiah	Ppt's & Course Material	DC, ADC		SSP, AC,DC
5	Mr. Vijaya Bhasker Reddy	Ppt's & Course Material	ESD, LICA	ESD,PDC	EMI, MPMC
6	Mrs. Deepika Ainapur	Ppt's & Course Material	NATL, DIP	DSP, DIP	STLD
7	Mrs. Gayatri Tangirala	Ppt's & Course Material	ME, AWP	MWE, AWP	DC
8	Mr. Angotu Saida	Ppt's & Course Material	EMTL, EMW	EMTL	AWP, PDC
9	Mrs. P Usha	Ppt's & Course Material	DSP	AE	AE, RS
10	Mr. Md Asif	Ppt's & Course Material	PTSP	MS,CS	
11	Ms. Poonam Ganesh Swami	Ppt's & Course Material	EDC, ECA	DIP	
12	Mr. Arpit Yadav	Ppt's & Course Material	AI		
13	Mr. Bavusaheb B K	Ppt's & Course Material	DSD,	LDICA	LDICA, VLSID
14	Mr. Vikram S Kamadal	Ppt's & Course Material	VLSID, MPMC		
15	Mr. M Tejeswara Kumar	Ppt's & Course Material	OC		
16	Mrs. P Spandana	Ppt's & Course Material		CMC, SC	AC
17	Mr. P Ramesh	Ppt's & Course Material		SSP	
18	Ms. M A Sohana Parveen	Ppt's & Course Material		SSP, DSP	DSP
19	Mrs. C Deepika	Ppt's & Course Material		RS	
20	Mr. K. Nagaiah	Ppt's & Course Material			WCN
21	Mr. Aleti Ravichandra	Ppt's & Course Material		MPMC	HV&PE
22	Mrs. Syeda Ayesha Afreen	Ppt's & Course Material			CMC, SC
23	Ms. Alavelu Uppari	Ppt's & Course Material			DSP
24	Mrs. K. Usha	Ppt's & Course Material			VLSID

ICT supported learning:

Academic Year: 2019-20

ICT Tools and Student Centric Methods Analysis Report

S. No	Name of Faculty	Student Centric Methods/ICT Tools									
		Quiz	JAM/Minute a Paper	Think Pair Share	Brain Storming	Unit Test	CLP	Student Seminars	Video Lectures	NPTEL Videos	Others	Total
1	Dr. Anil Rakhonde		1	1			1	1	1	1	2	8
2	Mr. M N Narsaiah		1	1	2			4	1	1		10
3	Dr. B Vandana Rao	1	1	1	1			1		1	1	7
4	Mr. D. Chandra Prakash		1	1	1	1	1		1	1	1	8
5	Mrs P. Usha		1	1				1	1	1	5	10
6	Mr. Arpit Yadav	1	1	1	1	1	1				1	7
7	Mr. Angotu Saida	1	3			1					4	9
8	Mrs. Gayatri T	4									6	10
9	Mrs. Deepika Ainapur			2			1				1	4
10	Mr. A Vijaya Bhasker Reddy	1			5			2			5	13
11	Mr. Bavusaheb B K	1	1	1	1		1	1	1	1	2	10
12	Mr. Vikram S Kamadal	1	1	1	1	1		1	1	1	1	9

Academic Year: 2018-19

S. No	Name of Faculty	Student Centric Methods/ICT Tools										
		Quiz	JAM/Minute a Paper	Think Pair Share	Brain Storming	Unit Test	CLP	Student Seminars	Video Lectures	NPTEL Videos	Others	Total
1	Dr. Manish Kumar Jain		1	1	1		1	1	1	1	1	8
2	Mr. M N Narsaiah			2								2
3	Mr. A Vijaya Bhasker Reddy	9	2	6	4		1	2	5		7	36
4	Mrs. A Deepika	1		1				5			1	8
5	Mrs. Gayathri T	6	5									11
6	Mr. Angotu Saida		1	2	2				2		4	11
7	Mrs. P Usha		2	1							2	5
8	Mr. Bavusaheb B K		2	4							3	9
9	Mrs. P Spandana		1					5			4	10
10	Mr. Md ASIF	1	1	1							1	4
11	Ms. Poonam Ganesh Swami		1	1							4	6
12	Ms. M A Sohana Parveen	1	1								3	5
13	Mrs. C Deepika	1		1							2	4
14	Mr. D Chandra Prakash		1							3		4
15	Mr. Aleti Ravichandra	2	2									4
16	Dr. B Vandana	3						1				4

Academic Year: 2017-18

S. No	Name of Faculty	Student Centric Methods/ICT Tools										
		Quiz	JAM/Minute a Paper	Think Pair Share	Brain Storming	Unit Test	CLP	Student Seminars	Video Lectures	NPTEL Videos	Others	Total
1	Mr. M N Narsaiah		1	1							1	3
2	Mrs. P Usha	1	1	1	1	1	1	1		1		7
3	Mr. Angotu Saida						1				2	2
4	Mrs. T Gayatri		1								2	3
5	Mrs. A Deepika	1	1	1	1	1	1	1	1	1	1	10
6	Mr. A Vijaya Bhasker Reddy			2				3			11	16
7	Mrs. P Spandana		1	1	1		1		1	1		6
8	Mr. Bavusaheb B K		2	1				1			3	7
9	Mrs. K Usha			4							1	5
10	Mr. D Chandra Prakash	1	1	1	1		1	1	1	1	1	9
11	Ms. M A Sohana Parveen		1								2	3

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

A Faculty scores maximum five points for participation

Participationin2to5days Faculty development program: **3 Points**

Participation > 5days Faculty development program: **5 Points**

Name of the Faculty	Max. 5 per Faculty		
	CAY m1: 2018-2019	CAY m2: 2017-2018	CAY m3: 2016-2017
Dr. Anil N Rakhonde	5		
Dr. Rohit Reddy	5	5	5
Dr. D Chandra Prakash	5	5	5
Dr. B Vandana	5		
Mr. M N Narsaiah	5	5	5
Mr. Vijaya Bhasker Reddy	5	5	5
Mr. Anil Kumar Bhupati	5	5	5
Mrs. Deepika Ainapur	5	5	5
Mrs. Gayatri T	5	5	5
Mr. Angotu Saida	5	5	5
Mrs. P Usha	5	5	5
Mr. Md Asif	5	5	
Ms. Poonam Ganesh Swami	5	5	
Mr. Arpit Yadav	5		
Mr. Bavusaheb B K	5	5	
Mr. Vikram S Kamadal	5		
Mr. M Tejeswara Kumar			
Mr. P. Ramesh	5	5	
Mrs. P Spandana	5	5	5
Mrs. M A. Sohana Parveen	5	5	
Mr. A. Ravichandra	5	5	

Mr. K. Nagaiah	**5**	**5**	
Ms. K Anusha	**5**	**5**	**5**
Ms. Tayyab Unnissa Begum		**5**	
Ms. K. Usha		**5**	
Ms. Alavelu Uppari		**5**	
Ms. C Deepika	**5**	**5**	
Ms. Syeda Ayesha Afreen		**5**	
Total	**115**	**115**	**55**
RF=Number of Faculty required to comply with 20:1 student faculty ratio	**12**	**15**	**9**
Assessment = 3x(sum/0.5RF)	**45**	**59**	**38.67**
Average assessment over three years (Marks limited to 15)	**47.56**		

5.7. Research and Development (30)

5.7.1. Academic Research (10)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

Number of quality publications refereed/SCI Journals, citations, Books/Book etc. (6)

Ph.D. guided/Ph.D. awarded during the assessment period while working in the Institute (4).

All relevant details shall be mentioned.

Faculty Pursuing Ph. D

Name of the Faculty	Research Topic	University	Guide	Date of Registration	No. Of Quality Publications in Referred/SCI Journals, Citations, Books/Books Chapters
Mr. M. N. Narsaiah	New algorithms and applications for information sensor and data fusion	Jawaharlal Nehru Technological University, Hyderabad	Dr S. Vathsal Dr D. Venkat Reddy	2012	08
Mrs. T Gayatri	Antenna Design	Bhagwant University, Ajmer	Dr V. K. Sharma	2018	03
Mr. Arpit Yadav	Design of computational efficient VLSI Architecture using Machine Learning	Shri Vaishnav Vishwavidlaya Indore, Madhya Pradesh	Dr Swapnil Jain	2018	07
Mr. A Saida	Design MIMO Based LTE Advanced an antenna Design for 5G Communication	Bhagwant University, Ajmer	Dr R K Yadav	2019	07
Mr. Md Asif	Power on (RACHing) procedure in 5G Communication	Bhagwant University, Ajmer	Dr R K Yadav	2019	07

List of Publications

Academic Year: 2019-2020

Sl. No.	Name of Author	Title of Paper	Name of Journal	ISBN/ISSN Number	Approved Journal	Link
1.	Dr. Anil Rakhonde	MRI Image Based Brain Tumor Detection Using Machine Learning	The mattingley publishing	0193-4120 Page No. 3672 - 3680	Scopus	file:///C:/Users/kg%20reddy/Downloads/anr_paper.pdf
2.	Dr. Rohit Kandakatla	The Development of Social Capital in an Active, Blended and Collaborative Engineering Class	International Journal of Engineering Education	Vol. 36, No.3, pp.1034-1048,2020	Tempus Publication	https://www.ijee.ie/contents/c360320.html
3.	Dr. Rohit Kandakatla	Motivators and Barriers in Undergraduate Mechanical Engineering Students use of learning resources	European Journal of Engineering Education	ISSN:0304-3797 (print) 1469-5898	Taylor & Francise	https://doi.org/10.1080/03043797.2020.1736990
4.	Dr. Rohit Kandakatla	Student Perspective on the Learning Recourses in an Active, Blended and Collaborative(ABC) Pedagogical Environment	International Journal of Engineering Pedagogy	Vol. 10, No 2, 2020	Scopus	https://doi.org/10.3991/ijep.v10i2.11606
5.	Mr. M N Narsaiah	Dual filter based images fusion Algorithm for CT and scan MRI Medical images.	IJITEE	2278-3075	UGC	https://www.ijitee.org/wp-content/uploads/papers/v8i9/I8988078919.pdf
6.	Dr. Anil Rakhonde	Diabetes Retinopathy Disease Detection Using Convolution	Test Engineerin	ISSN: 0193-4120	Scopus	https://d1wqtxts1xzle7.cloudfront.net/62963946/test-sample-

		Neural Network	g Journal	Page No. 3672 - 3680		word-Diabetesmodified20200415-113726-3x9ppa-with-cover-page-v2.pdf?Expires=1627975236&Signature=JTfkoNnzFwXe9eMOGMttiknyDiPwdVyLU0p9nr8U8qPAgRZJjynXYc4MQFuEF36Iefb9hnPShj9tqViame9VgG2rdMuR06Rd8OzpPtF4XNjZnMOGOOUZpi8Rh0uKp-CcjPIsBan~jCdAqb9KgbwTd-uzgpjvzMZTJbJJJH9mOsXAEN0Lu~Rvz~qdwy997L-YmMET9-6Nf80lFkEIFByluNc0yH1Vj2r9Z~nP-miJ2cZjbBXrBVHtw9p88zbAnlQ5rurMrW0wIvfjUOUz7h9zUnwWdTttZYzZi0nocY2vexXTv4HPMvmA7abolzCUe0WKaPlZgABXZRnI-nqjaP7skg__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA
7.	Dr. D. Chandra Prakash	Radiation and chemical reaction effect on MHD Accelerated inclined plate with variable temperature	Adalya journal,	1301-2746	Scopus	http://www.adalyajournal.com/gallery/41-aug-1679.pdf
8.	Dr. B Vandana	Higher order derivatives and sces	JASC	1076-5131	UGC	https://app.box.com/s/uelbvag

		of graded material device layer for 2d junction less fin fet				64uu4js6cb52xt90udrzrqvib
9.	Dr. D Chandra Prakash	Radiation effect on Transient MHD free convective flow over a vertical porous plate with heat source	JICS	1548-7741	UGC	http://joics.org/gallery/ics-1960_1.pdf
10.	Dr. B Vandana	Mole fraction dependency electrical performance of extremely thin Si-Ge transistor	SG-OIJLCT		springer	https://link.springer.com/chapter/10.1007/978-981-13-2553-3_56
11.	Mr. MN Narsaiah	Analysis of metric based wavelets for medical image fusion	IJAST	2005-4238	UGC	http://sersc.org/journals/index.php/IJAST/article/view/1972

Academic Year: 2018-2019

Sl. No.	Name of Author	Title of Paper	Name of Journal	ISBN/ISSN Number	Approved Journal	Link
1.	Mrs. A Deepika	Neuro endoscopy adapter module development for better brain Tumor image visualization	JETIR	2349-5162	UGC	http://www.jetir.org/papers/JETIR1808932.pdf
2.	Dr. Rohit Kandakatla	Video Coding of Class Room Observation for Research and Instructional Support in an Innovative Learning Environment	AJEE	ISSN: 2205-4952	Taylor & Francis	https://tandfonline.com/loi/teen20
3.	Mr. M.N. Narsaiah	Spatial domain fusion of digital images using pixel-wise dyadic operations and opacity controlled superimposition	JARDCS	1943-023X	SCOPUS	http://www.jardcs.org/archives-special.php?year=2018&issue=04-Special%20Issue&page=25
4.	Dr. Manish Jain,	Analysis of ADC parameter: ENOE	JASC	1076-5131	UGC	https://app.box.com/s/t2key4miltqpy5gjaqzanmr3izwyb

		and sinad for 10 bit ADC				ymx
5.	Mr. K Nagaiah	Segmentation techniques for micro calcification detection in mammogram image analysis	JASC	1076-5131	UGC	https://app.box.com/s/0uivfo55qj3cjrls6f34u2z0t6ftfsbu
6.	Mr. Angotu Saida	Future technology for mobile communication system	JASC	1076-5131	UGC	https://app.box.com/s/an4or42495q3syirsiszmgm07r03oy88
7.	Mr. MD Asif	Future technology for mobile communication system	JASC	1076-5131	UGC	https://app.box.com/s/an4or42495q3syirsiszmgm07r03oy88
8.	Dr. B Vandana	Higher order derivatives and sces of graded material device layer for 2d junction less fin fet	JASC	1076-5131	UGC	https://app.box.com/s/uelbvag64uu4js6cb52xt90udrzrqvib
9.	Mrs. C. Deepika	A review report on switching aware techniques for domino circuits	JASC	1076-5131	UGC	https://app.box.com/s/grmq09qd63zxsb2lafvgmpxlbx7vgivl
10.	Mrs. M A Sohana parveen	A review report on switching aware techniques for domino circuits	JASC	1076-5131	UGC	https://app.box.com/s/grmq09qd63zxsb2lafvgmpxlbx7vgivl
11.	Mrs. Poonam Ganesh Swami	A review report on switching aware techniques for domino circuits	JASC	1076-5131	UGC	https://app.box.com/s/grmq09qd63zxsb2lafvgmpxlbx7vgivl
12.	Mr. Aleti Ravichandra	Design and implementations of high-efficient sha-2 algorithm	JASC	1076-5131	UGC	https://app.box.com/s/qnielqdconii7gai9bp2czaretjg4nlk
13.	Mrs. P. Usha	A review on image processing in engineering applications	JASC	1076-5131	UGC	https://app.box.com/s/qixlwa64z20cjfvok0b8yc8nht4gk03w
14.	Mr. A Vijaya Bhasker Reddy	Cmos instrumentation intensifier planning idea for low power sensor applications	JASC	1076-5131	UGC	https://app.box.com/s/6ze0te62ute46zcxyv48kbneepxbe3ki

15.	Mrs. P. Spandana	Authentication techniques in mobile communications	JASC	1076-5131	UGC	https://app.box.com/s/tn463qipwzb79ra4kfell0iuxymnfgyh
16.	Mrs. M A Sohana parveen	A survey on minimization of floor planning area	JASC	1076-5131	UGC	https://app.box.com/s/r2xmdpsdanpclsmb5g4gijyz33q48w8o
17.	Mrs. Poonam Ganesh Swami	A survey on minimization of floor planning area	JASC	1076-5131	UGC	https://app.box.com/s/r2xmdpsdanpclsmb5g4gijyz33q48w8o
18.	Mrs. C. Deepika	A survey on minimization of floor planning area	JASC	1076-5131	UGC	https://app.box.com/s/r2xmdpsdanpclsmb5g4gijyz33q48w8o
19.	Mrs. Poonam Ganesh Swami	Mobile phone analysis in digital forensics	JASC	1076-5131	UGC	https://app.box.com/s/3u2lyxziq3dryza5umtiq8v6yz85ee89
20.	Mrs. M A Sohana parveen	Mobile phone analysis in digital forensics	JASC	1076-5131	UGC	https://app.box.com/s/3u2lyxziq3dryza5umtiq8v6yz85ee89
21.	Mrs. C. Deepika	Mobile phone analysis in digital forensics	JASC	1076-5131	UGC	https://app.box.com/s/3u2lyxziq3dryza5umtiq8v6yz85ee89
22.	Mr. P Ramesh	Design of low power efficient full adder using GDI technique	JASC	1076-5131	UGC	https://app.box.com/s/ujncwsnletye8uniymcff1y75rx2m5lz
23.	Mr. M. N. Narsaiah	Review and analysis on techniques of image fusion for medical applications	JASC	1076-5131	UGC	https://app.box.com/s/zebpcgsq953n4ykteoknykhfy4s3c8c2
24.	Mr. Bavusaheb B K	Prosthetic five fingered hand for physically impaired individuals using EEG'S and Arduino	JASC	1076-5131	UGC	https://app.box.com/s/8uha2il5uzjx7xu3fr9pvncj1c1781b5

25.	Mr. A. Vijaya Bhasker Reddy	Prosthetic five fingered hand for physically impaired individuals using EEG'S and Arduino	JASC	1076-5131	UGC	https://app.box.com/s/8uha2il5uzjx7xu3fr9pvncj1c1781b5
26.	Mr. MD. ASIF	Executing multiple identities in IMS/VOLTE networks utilizing implicit registration	JASC	1076-5131	UGC	https://app.box.com/s/twfdgbgkatpjkoqlxq52lv5aiw4gx728
27.	Mrs. T Gayatri	A survey on conceptualization of cognitive radio and dynamic spectrum access for next generation wireless communications	JASC	1076-5131	UGC	http://www.j-asc.com/gallery/90-february-2019-tg.pdf
28.	Mr. D. Chandra Prakash	A review of content based satellite image retrieval by using texture feature	JASC	1076-5131	UGC	https://app.box.com/s/kwqsp0g3cihevhng4wcjsddmwtkfcfzz
29.	Mr. Bavusaheb. B. K	Network function virtualization enabled architecture of IOT for operating room innovation center	JASC	1076-5131	UGC	https://app.box.com/s/kpou9lvfg2uxzoyig52mdc6ndh8ya6qw
30.	Mr. Vijaya Bhasker Reddy	Execution and performance analysis of real time scheduling algorithms for embedded applications	JASC	1076-5131	UGC	https://app.box.com/s/939b4wpumjt88oss1huezzdaof38us2t
31.	Mr. A. Ravichandra	A review on various power management Techniques in VLSI circuits	JASC	1076-5131	UGC	https://app.box.com/s/vgochx5y3c4g8ljoyo9p8chm1tdc2lw3
32.	Mrs. C. Deepika	A review on various power management Techniques in VLSI circuits	JASC	1076-5131	UGC	https://app.box.com/s/vgochx5y3c4g8ljoyo9p8chm1tdc2lw3

Academic Year: 2017-18

Sl. No	Name of the Author	Title of Paper	Name	ISBN/ISS	Approved	Link

			of Journal	N Number	Journal	
1.	Mrs. P Spandana	Processing and analysis of digital images and checking the quality of data captured	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806097.pdf
2.	Mrs. A Deepika	Processing and analysis of digital images and checking the quality of data captured	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806097.pdf
3.	Mrs. P Usha	A phase frequency detector for a high frequency PLL design	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806055.pdf
4.	Mr. Bavusaheb. B. K	A phase frequency detector for a high frequency PLL design	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806055.pdf
5.	Mr. P Ramesh	Automatic speed limiter, reliever and data dissemination in vehicular cloud systems	JETIR	2349-5162	UGC	http://www.jetir.org/view?paper=JETIR1806482
6.	Mr. A Vijaya Bhasker Reddy	Speaking system for mute people using raspberry pi.	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1805715.pdf
7.	Mr. D. Chandra Prakash	Satellite cloud image retrieval using texture features by content based.	IJMER	2277-7881	UGC	http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume7/volume7-issue5(4)-2018.pdf
8.	Mrs. Poonam Ganesh Swami	A survey on MIMO OFDM with advanced index modulation	IJCRT	2320-2882	UGC approved-2017	http://www.ijcrt.org/download1.php?file=IJCRT187904.pdf
9.	Mrs. C. Deepika	A survey on MIMO OFDM with advanced index modulation	IJCRT	2320-2882	UGC approved-2017	http://www.ijcrt.org/download1.php?file=IJCRT187904.pdf
10.	Mrs. M.A Sohana Praveen	A survey on MIMO OFDM with advanced index	IJCRT	2320-2882	UGC approved-	http://www.ijcrt.org/download1.php?file=IJCRT1

		modulation			2017	87904.pdf
11.	Mr. Bavusaheb B K	Design and analysis of carry select adder using modified full swing GDI techniques	JETIR	2349-5162	UGC	www.**jetir**.org/papers/JETIR1805715.pdf
12.	Mrs. C. Deepika	Dual nodes pulse domino technique for buffer circuit in low power memory arrays	IJCRT	2320-2882	UGC approved-2017	https://waset.ijcrt.org/viewfull.php?id=IJCRT1812941
13.	Mrs. M A Sohana parveen	Dual nodes pulse domino technique for buffer circuit in low power memory arrays	IJCRT	2320-2882	UGC approved-2017	https://waset.ijcrt.org/viewfull.php?id=IJCRT1812941
14.	Mrs. P. Usha	A phase frequency detector for a high frequency PLL design	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806055.pdf
15.	Mr. Bavusaheb B. K.	A phase frequency detector for a high frequency PLL design	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1806055.pdf
16.	Mr. Md. Asif	Potential capability of LTE-advanced physical layer	GJESR	2348-8034	UGC	http://www.gjesr.com/Issues%20PDF/Archive-2018/June-2018/19.pdf
17.	Mr. A Ravichandra	Novel preservation path for internet of things	IJEEME	2348-4748	UGC	http://oiirj.org/oiirj/may2017-special-issue/35.pdf
18.	Mr. K. Nagaiah	Edge detection techniques for mammogram images analysis	JETIR	2349-5162	UGC	www.jetir.org/papers/JETIR1805783.pdf
19.	Mr. A Saida	Reliable antenna design for 5g communication	IJR	2236-6124	UGC	http://ijrpublisher.com/gallery/59-july-2018.pdf
20.	Mr. M.N. Narsaiah	A survey on image fusion requirements, techniques evaluation matrix and its applications	IJET	2227-524X	SCOPUS	https://www.sciencepubco.com/index.php/ijet/issue/view/323
21.	Mrs. M A Sohana parveen	An FPGA implementation of parallel 2-d MRI image filtering algorithm using quartus-ii	GJESR	2348-8034	UGC	http://www.gjesr.com/Issues%20PDF/Archive-2018/June-2018/35 .pdf
22.	Mrs. C. Deepika	An FPGA implementation of	GJESR	2348-8034	UGC	http://www.gjesr.com/Iss

		parallel 2-d MRI image filtering algorithm using quartus-ii				ues%20PDF/Archive-2018/June-2018/35.pdf
23.	Mrs. Poonam Ganesh Swami	An FPGA implementation of parallel 2-d MRI image filtering algorithm using quartus-ii	GJESR	2348-8034	UGC	http://www.gjesr.com/Issues%20PDF/Archive-2018/June-2018/35.pdf
24.	Mr. Md. Asif	Analysis of MSA, paraboloid and lens antennas using SHF for wireless communication devices	IJCRT	2320-2882	UGC approved-2017	http://www.ijcrt.org/IJCRTNCES045.pdf

5.7.2. Sponsored Research (5)

NIL

5.7.3. Development activities (10)

Provide details:

5.7.3.1 Product Development:

Sl. No	Project to Prototype Development	Guided name	Academic	Status

			year	
1	IOT Home Automation With Blu-Fi Technology Based On MQQT and Wi-Fi Sensor Nodes	Dr. D Chandra Prakash	2019-2020	Developed
2	Movable Road Divider	Dr. B Vandana		
3	Border Security Smart Robot Using IOT	Mr. A Saida		
4	Smart Helmet	Mr. Bavusaheb B K	2018-2019	Developed
5	M-BOT	Mrs. T Gayatri		
6	Intelligent system for COAL MINES Using GSM.	Mr. A Vijaya Bhasker Reddy		
7	Voice controlled electronic wheel chair with patient monitoring system	Mrs. Gayatri T	2017-2018	Developed
8	Speaking System For Blind People Using Hand Gestures	Mr. A Vijaya Bhasker Reddy		
9	Accident detection and ambulance rescue system	Mr. Bavusaheb B K		

5.7.3.2 Research laboratories:

Name of faculty	**Developed Research Laboratory**
Dr. Vandana, K. Praveen	R & D and Project incubation center
Mr. Bavusaheb BK and K Praveen	IOT Maker Space lab
Dr. B Vandana	VLSI and E-CAD Lab
Mrs. T Gayathri	Microwave Engineering Lab
Mr. A Vijaya Bhasker Reddy	Linear IC Applications Lab
Mr. Bavusaheb B K	Digital IC Applications Lab/ DSD Lab
Mrs. P Usha	Electronic Circuit Analysis Lab
Ms. Swami Poonam Ganesh	Electronic Devices and Circuits
Mrs. A Deepika	Basic Simulation/ Digital Signal Processing

Mr. Vikram S Kamadal	Microprocessors and Microcontrollers Lab
Mr. M N Narsaiah/ Mr Md Asif	Analog and Digital Communications Lab

5.7.3.3 Instructional materials

Lecture Notes related to all subjects are readily available in the form of course files and also a handbook is uploaded along with PPT in the College Website. Instruction material developed by Faculty:

- Power Point Presentation
- NPTEL Video Lecturers
- Lab manuals
- Hand books
- Course files

Working models/charts

Name of the Faculty	Models/Charts
Dr. Vandana	GPS demo model
Dr. D Chandra Prakash	VI Characteristics of PN Junction Diode Model
Mrs. P Usha	Common Emitter Amplifier
Mr. Bavusaheb B K	Operation Amplifier Architecture Chart
Mrs. A Deepika	Scilab working model
Mr. A Vijaya Bhasker Reddy	ARM11Architecture Chart
Mr. Vikram S K	VLSI Design Flow Chart
Ms. Poonam Ganesh Swami	VI Characteristics of UJT Model
Mr. Tejeswara Kumar	Optical communication System model

5.7.4 Consultancy (from Industry) (5)

Academic Year	Project Title	Funding Agency	Duration	Amount
2018-2019	-	-	-	-
2017-2018	-	-	-	-

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

The institute encourages employees with structured performance appraisal system which was designed to foster individual development and identify opportunities for additional support so as to more productivity to achieve good results. The present appraisal system motivates the staff to put forth the best of their efforts. All the teaching staffs have been informed to carry out at least 3 of the following tasks every academic year: teaching, research, service to the institution, and professional development/self-improvement. At the start of each semester, the faculty are instructed to set performance goals for themselves by mentioning what they would like to achieve in 3 or 4 of the categories. Faculty who are teaching courses should mention the average pass and academic percentage they would help their students achieve in the course. Faculty pursuing research should mention the number of papers they wish to publish in the academic year. Faculty are also expected to mention how they would serve the institution i.e. what additional work they will be taking up in supporting the different departments in the institution and what workshops/STTP's they are planning to attend to help them develop professional. All the above mentioned in included in each faculty's goal setting document which is submitted to the HODs. All the HODs review the goal setting documents and approve them in consultant with the HR and the Principal.

At the end of the odd semester, mid-year reviews are conducted for the entire faculty to review the progress of the goals they mentioned in the goal setting document. Depending on the progress, feedback is given to each faculty on how to improve their performance. At the end of the even semester, end-of-the-year review sessions are conducted with each faculty to measure the progress of the goals set at the start of the academic year. The end-of-the-year review sessions are facilitated for the respective HODs in the presence of the Principal, Chairman, and HR. Depending on the progress of the faculty, the committee decided the appraisal of the faculty and take appropriate decisions on salary increments and promotions.

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

Minimum Eligible Criteria: 60 % score

B. Research (100 marks)	Max	Secured= Max×Wtg	Evidence
Section I: Academic Research • Primary, Secondary and Tertiary authorships are considered. • If all the other authors in a publication are students of the faculty then any position is considered for authorship. • In some of the research areas more number of authors (more than 3) can be considered based upon the recommendation by the committee formed by the Research Council			
1. Total Publications in refereed scholarly article in a national or international Journal papers indexed in **Web of Science or Scopus**. Beyond | Expected | Below	25		
2. Publications in refereed scholarly article in a national or international Conference papers **indexed in Web of Science or Scopus** Beyond | Expected | Below	15		
3. Applies and secures research funding Beyond | Expected | Below	30		
Sections II: Other research related activities			
4. Develops patents / Industrial consultancy through scholarly research Beyond | Expected | Below	20		
5. Guides UG students for research and projects (should result filing of patents or paper publication) Beyond | Expected | Below	10		
Total B			

Note: Minimum Eligible Criteria: Minimum score for this category will be based upon the number of years of experience, qualification, cadre and responsibilities assigned.

C. Service to the Institution (100 marks)	Max	Secured = Max×Wtg	Evidence
1. Leadership responsibility at institute/department (traditional & non-traditional) level. Non-traditional include Student Welfare, IQAC, CEED, T&P, Accreditation etc. Commitment | Genuine Compliance | Formal Compliance	15		

2. Cooperating with departmental programs and processes Commitment / Genuine Compliance / Formal Compliance			5		
3. Support provided for effective functioning of the department (applicable for assigned department) Commitment / Genuine compliance / Formal Compliance			10		
4. Coordination of accreditation related activities Commitment / Genuine compliance / Formal Compliance			10		
5. Authors departmental reports or documents Commitment / Genuine compliance / Formal Compliance			5		
6. Coordination of admissions related tasks Commitment / Genuine compliance / Formal Compliance			5		
7. Organizes a workshop/guest lecture/training program Beyond / Expected / Below			5		
8. Support in organizes of institute level programs such as conference/student fest Commitment / Genuine compliance / Formal Compliance			10		
9. Serves as in-charge for student club/organization Commitment / Genuine compliance / Formal Compliance			10		
10. Serves as head of committee or cell (e.g. student grievance cell, women's cell, program assessment committee Commitment / Genuine compliance / Formal Compliance			10		
11. Serves on boards, liaison, representative, external reviewer to schools/colleges/universities Commitment / Genuine compliance / Formal Compliance			5		

12. Mentors junior faculty to succeed in their role. Commitment | Genuine compliance | Formal Compliance			5		
13. Adherence towards examination related duties. Commitment | Genuine compliance | Formal Compliance			5		
Choose as many areas as applicable					
Total C					

Minimum Eligible Criteria: Minimum score for this category will be based upon the number of years of experience, qualification, cadre and responsibilities assigned.

D. Professional Development (35 marks)			**Max**	**Secured = Max×Wtg**	**Evidence**
1. Participation in Faculty Development Programs (FDPs)			05		
Beyond	Expected	Below			
2. Participation in Short Term Training Programs (STTPS)			10		
Beyond	Expected	Below			
3. Registration and completion of online courses/MOOCs such as NPTEL, SWAYAM etc.			10		
Beyond	Expected	Below			
4. Participation in state/national/international conferences			05		
Beyond	Expected	Below			
5. Holds membership in professional organizations			05		
Beyond	Expected	Below			
Total D					

Minimum Eligible Criteria: 60 % score

E. Peer Evaluation (15 marks)			**Max**	**Secured = Max×Wtg**	**Evidence**
1. Performance evaluation by peer/mentor			5		
Beyond	Expected	Below			

2. Performance evaluation by head of department Beyond / Expected / Below	5		
3. Performance evaluation by other reporting in-charge (if applicable). Beyond / Expected / Below	5		
Total E			

Minimum Eligible Criteria: not applicable

Total Score = Total A + B + C + D + E = _____

Faculty Member's Signature: _____ Date: _____

Appraiser's Signature: _____ Date: _____

6. FACILITIES AND TECHNICAL SUPPORT (80)

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

S. No.	Name of the laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	VLSI and E-CAD Lab	3	PC, ISE Webpack, Magic tool for layout design.	6 hours / week	Shiva	Lab Assistant	B.Tech
2	Microwave Engineering Lab/ Microprocessors and Microcontrollers Lab	3	Microwave Bench Set-ups with Klystron Power supplies and Gunn Power supplies, VSWR meters, CROs 30MHz, Antenna measurement microwave bench setup, Muxtronix software for antenna analysis, DSOs, 8257 DMA, Interfacing cards, Interrupt controller, 8251 USART, PCs, NASM (Open Source), Proteus, Keil Microvision 5, 8086 Microprocessor Trainer Kits, 8051 Microcontroller Trainer Kits, Analog to Digital convertor Module, Digital to Analog Convertor Module, Stepper Motor Module.	6 hours / week	D. Raju	Lab Assistant	Diploma
3	Linear IC Applications Lab	3	CRO 30MHz, Function Generator (0-2MHz), Multimeter, RPS (0-30V).	6 hours / week	D. Raju	Lab Assistant	Diploma

4	Digital IC Applications Lab/ DSD Lab	3	CRO 30MHz, Function Generator (0-2MHz), Multimeter, RPS (0-30V).	12 hours / week	P. Chandu	Lab Assistant	ITI
5	Electronic Devices and Circuits / Electronic Circuit Analysis Lab	3	Function Generator (0-2MHz), Multimeter, Amplifiers, Oscillators, Transformer, CRO 30 MHz, Function Generators (0-2 MHz), Regulated Power Supply (0- 30)V, Trainer Kits.	9 hours / week	K. Praveen	Lab Assistant	Diploma
6	Basic Simulation/ Digital Signal Processing Lab	3	PCs, Sci lab open source software	6 hours / week	Shiva	Lab Assistant	B.Tech
7	Analog and Digital Communications Lab	3	AC Kits like AM, FM, PAM, PPM, PWM, DSBSC, SSBSC. DC Kits like DM, PCM, DPCM, ADM, PSK, ASK, QPSK, DPSK, CRO (0-30MHz), DSO (4 Channel and dual channel), Function Generator, Spectrum Analyzer (Analog and Digital), Frequency Synthesizer, OFDM, QAM, RF Generator, Octave open source software.	6 hours / week	D. Raju	Lab Assistant	Diploma

6.2. Additional facilities created for improving the quality of learning experience in Laboratories (25)

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	R & D Laboratory	PCB Design Unit, 3D Printer, Soldering / De-soldering, PCs, Open source soft wares	To implement Research projects, Research grants and student incubation idea Projects purpose	8 hours/week	1. Circuit Design implementing on breadboard. 2. Hardware testing 3. Synthesis of Hardware Design 4. For Designing and Analysis of project 5. VLSI System Design 6. To develop programming skills. 7. Communication and Signal Processing 8. For Designing and Analysis of project	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO3, PSO4.
2	IOT Maker Space lab	PCB Design Unit, 3D Printer, Soldering / De-soldering, PCs.	Projects purpose	6 hours/week	1. Circuit Design implementing on breadboard. 2. Hardware testing 3. Synthesis of Hardware Design 4. For Designing and Analysis of project	PO 1, PO 2, PO 3, PO 5, PO 9, PO 10, PO 12. PSO 1, PSO 3, PSO 4.

3	VLSI and E-CAD Lab	PC, Xilinx Webpack, Magic tool for layout design.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	6 hours/week	1. Designing and Analysis of project. 2. VLSI System Design 3. To develop programming skills.	PO 1, PO 2, PO 3, PO 10, PO 12. PSO 1, PSO 3, PSO 4.
4	Microwave Engineering Lab/ Microprocessors and Microcontrollers Lab	Microwave Bench Set-ups with Klystron Power supplies and Gunn Power supplies, VSWR meters, CROs 30MHz, Antenna measurement microwave bench setup, Muxtronix software for antenna analysis, DSOs, 8257 DMA, Interfacing cards, Interrupt controller, 8251 USART, PCs, MASM (Open Source), Proteus Keil Microvision 5, 8086	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	6 hours/week	1. Study of microwave components and signals. 2. Study of Gunn and Klystron characteristics. 3. Study about antenna patterns. 4. Study basic and advanced microprocessors 5. Study of microcontrollers 6. Study of different interfacings.	PO 1, PO 2, PO 3, PO 10, PO 12. PSO 1, PSO 3, PSO 4.

		Microprocessor Trainer Kits, 8051 Microcontroller Trainer Kits, Analog to Digital convertor Module, Digital to Analog Convertor Module, Stepper Motor Module.				
5	Linear IC Applications Lab	CRO 30MHz, Function Generator (0-2MHz), Multimeter, RPS (0-30V).	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	6 hours/week	1. Study of Integrated circuits. 2. Analyze various combinational circuits. 3. To study about operational amplifiers and its usage.	PO 1, PO 2, PO 3, PO 10, PO 12. PSO 1, PSO 3, PSO4.
6	Digital IC Applications Lab/ DSD Lab	CRO 30MHz, Function Generator (0-2MHz), Multimeter, RPS (0-30V).	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	12hours/ week	1. To know about sequential circuits 2. Analyze various logic gates 3. To know about multiplexing and de-multiplexing signals.	PO 1, PO 2, PO 3, PO 10, PO 12. PSO 1, PSO 3, PSO 4.

7	Electronic Devices and Circuits / Electronic Circuit Analysis Lab	Function Generator (0-2MHz), Multimeter, Amplifiers, Oscillators, Transformer , CRO 30 MHz, Function Generators (0-2 MHz), Regulated Power Supply (0-30) V, Trainer Kits.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	9 hours/week	1. Circuit Design implementing on breadboard. 2. Hardware testing 3. Synthesis of Hardware Design 4. For Designing and Analysis of project.	PO 1, PO 2, PO 3, PO 5, PO 9, PO 10, PO 12. PSO 1, PSO 3, PSO 4.
8	Basic Simulation/ Digital Signal Processing Lab	PCs, Sci lab open source software	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	6 hours/week	1. To study basic signals. 2. To study the signal processing. 3. To know about correlations and window techniques for signals. 4. To know about sampling and multi rate signal processing techniques	PO 1, PO 2, PO 3, PO 4, PO 5, PO 12. PSO 1, PSO 2, PSO 3, PSO 4.
9	Analog and Digital Communications Lab	AC Kits like AM, FM, PAM, PPM, PWM, DSBSC, SSBSC. DC Kits like DM, PCM, DPCM, ADM, PSK, ASK, QPSK,	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities	6 hours/week	1. Study of basic and advanced modulation and demodulation mechanisms 2. To do the spectral analysis of signals 3. To study the waveforms of complex signals	PO 1, PO 2, PO 3, PO 5, PO 9, PO 10, PO 12. PSO 1, PSO 3, PSO 4.

		DPSK, CRO (0-30MHz), DSO (4 Channel and dual channel), Function Generator, Spectrum Analyzer (Analog and Digital), Frequency Synthesizer, OFDM, QAM, RF Generator, Octave open source software.				

6.3. Laboratories: Maintenance and overall ambience (10)

(Self-Explanatory)


Sr. No.	Name of the Facilities	Utilization
1.	PC, ISE Webpack, Magic tool for layout design.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
2.	Keil micro vision 5 open source software tool and Microcontroller 8051, Proteus	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
3	QUCS software for implementation of power circuits.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
4.	Lab view free Version software	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.
5	Internet of 100Mbps and Wi-Fi of 50Mbps	UG students, Research Scholars and Faculty members utilize the internet and Wi-Fi facility for their Project and research activities.
6	10KVA UPS 240 VDC along with batteries	Used in case of Power failure in all PC System.
7	PCB Design Unit, 3D Printer, Soldering / De-soldering, PCs, Open source soft wares.	UG students, Research Scholars and Faculty members utilize for their mini projects, projects, and research activities.

Laboratory: Maintenance

1. The respective Lab assistant takes care of maintenance of all the equipments in the department.

2. All the activities of the lab maintenance are well documented.
3. Most of the repairing of the equipment is done by the lab assistant himself, except a few repairing where, the work has to be done by the manufacturing company / vendor.
4. Maintenance registers are maintained to check the working of equipment and updated once in a semester.
5. Equipment is sent for regular service according to requirement.
6. At the start of every semester the equipment of all the concerned Laboratories are tested by the Lab in-charges.
7. Any Problem identified is brought to the notice of head of the department.
8. Maintenance of computers is taken care by Computer Science & Engineering department
9. Major repairs are outsourced by following the procedure of the institute.
    i. The problematic equipments are checked, noted in the maintenance registers and they are brought to the notice of HOD by the concerned lab faculty and lab assistant.
    i. Then the equipment is checked whether it's repairable or non-repairable, if minor repairs are identified then they are repaired by our lab assistants.
    i. If non-repairable equipment is identified it will be kept in the same lab separately for demonstration to students.
    ii. If major repairs are identified then the request is forwarded to the vendors for concerned technical people to repair the equipment.
    iii. The technical person comes to campus for repairing. This process will be monitored by the concerned lab faculty.

Laboratory: Overall Ambience

1. All laboratories are well furnished.
2. Support Staff are allotted to maintain the cleanliness of the laboratory.
3. All laboratories have sufficient natural light, Air circulation,
4. Good ventilation with tubes and fans arrangement.
5. Overall ambience of laboratories is good.
6. The charts of basic modules/ components/ characteristics with respect to related subject are displayed for information purpose.

6.4. Project laboratory (5)
(Mention facilities & Utilization)

Outcomes of project lab:

S. no	**Project to Prototype Development**	**Guide name**	**Academic year**	**Status**
1	IOT Home Automation With Blu-Fi Technology Based On MQQT and Wi-Fi Sensor Nodes	Dr. D Chandra Prakash	2019-2020	Developed
2	Movable Road Divider	Dr. B Vandana		
3	Border Security Smart Robot Using IOT	Mr. A Saida		
4	Smart Helmet	Mr. Bavusaheb B K	2018-2019	Developed
5	M-BOT	Mrs. T Gayatri		
6	Intelligent system for COAL MINES Using GSM.	Mr. A Vijaya Bhasker Reddy		
7	Voice controlled electronic wheel	Mrs. Gayatri T	2017-2018	Developed

	chair with patient monitoring system			
8	Speaking System For Blind People Using Hand Gestures	Mr. A Vijaya Bhasker Reddy		
9	Accident detection and ambulance rescue system	Mr. Bavusaheb B K		

6.5. Safety measures in laboratories (10)

All labs are equipped with

- First Aid Kits
- MCBs
- Fire extinguishers
- Safety Boards displayed in labs for information to students.
- Do's and Don'ts displayed in labs for information to students.
- Lab in charge and Lab technician details displayed in labs for information

Sr. No.	Name of Laboratory	Safety Measures
1	VLSI and E-CAD Laboratory	1. Use of Fire extinguisher during hazards. 2. Use of UPS to provide safe shutdown of computer and save data. 3. Use of Backup data facility for recovery. 4. Electrical safety with proper earthing. 5. Use of Insulated tools 6. Avoid use of improperly earthed equipments. 7. Medical first aid kit. 8. Remove the shoe before entering the lab. 9. The computer labs are equipped with Air Conditioners to provide cooling to maintain appropriate temperature to the computers.
2	Basic Simulation Laboratory/ Digital Signal Processing Lab	1. Use of Fire extinguisher during hazards. 2. Use of UPS to provide safe shutdown of computer and save data. 3. Use of Backup data facility for recovery. 4. Electrical safety with proper earthing. 5. Use of Insulated tools 6. Avoid use of improperly earthed equipments. 7. Medical first aid kit. 8. Remove the shoe before entering the lab. 9. The computer labs are equipped with Air Conditioners to provide cooling to maintain appropriate temperature to the computers.

3	Electronics Devices & Circuits Laboratory / Electronics Circuit Analysis Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of Proper footwear to avoid electrical shocks 5. Avoid use of improperly earthed equipments. 6. Operate the equipments within operating range. 7. Medical first aid kit. 8. Use of proper clothing with apron. 9. Exhaust fans are provided in labs for improving air quality and ventilation
4	Microprocessors and Microcontrollers Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of Proper footwear to avoid electrical shocks 5. Avoid use of improperly earthed equipments. 6. Operate the equipments within operating range. 7. Medical first aid kit. 8. Use of proper clothing with apron. 9. Exhaust fans are provided in labs for improving air quality and ventilation
5	Linear IC Applications Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of Proper footwear to avoid electrical shocks 5. Avoid use of improperly earthed equipments. 6. Operate the equipments within operating range. 7. Medical first aid kit. 8. Use of proper clothing with apron. 9. Exhaust fans are provided in labs for improving air quality and ventilation
6	Digital Integrated Circuits Laboratory /Digital System Design Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of Proper footwear to avoid electrical shocks 5. Avoid use of improperly earthed equipments. 6. Operate the equipments within operating range. 7. Medical first aid kit. 8. Use of proper clothing with apron. 9. Exhaust fans are provided in labs for improving air quality and ventilation

7	Analog & Digital Communication Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of Proper footwear to avoid electrical shocks 5. Avoid use of improperly earthed equipments. 6. Operate the equipments within operating range. 7. Medical first aid kit. 8. Use of proper clothing with apron. 9. Exhaust fans are provided in labs for improving air quality and ventilation
8	Microwave Engineering Laboratory	1. Use of Fire extinguisher during hazards. 2. Electrical safety with proper earthing. 3. Use of Insulated tools 4. Use of cooling fan to avoid damage of equipment(s). 5. Use of Proper footwear to avoid electrical shocks 6. Avoid use of improperly earthed equipments. 7. Operate the equipments within operating range. 8. Medical first aid kit. 9. Use of proper clothing with apron. 10. Exhaust fans are provided in labs for improving air quality and ventilation

7 CONTINUOUS IMPROVEMENT (50)

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

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

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.22	1.03	Target level is attained
Action Plan:Attained by conducting extra lectures by eminent personalities on the specific subjects			
PO 2 : Problem Analysis			
PO 2	1.23	1.05	Target level is attained
Action Plan : Attained by Problem solving and analyzing skills courses which helps the students to apply in real time applications.			
PO 3 : Design/development of Solutions			
PO 3	0.75	0.65	Target level is attained
Action Plan: Attained by internships and guiding projects in different domains such as DSP,VLSI and Embedded Systems etc.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	0.55	0.49	Target level is attained
Action Plan: Attained by conducting value added courses and certification courses to Improve the research based knowledge			
PO 5 : Modern Tool Usage			
PO 5	0.56	0.51	Target level is attained
Action Plan: Attained by using modern tools and software like Xilinx ,Keil etc			
PO 6 : The Engineer and Society			
PO 6	0.41	0.39	Target level is attained
Action Plan: Attained by conducting Workshop on IOT projects related to society and visiting industry to expand their practical Knowledge.			

PO 7 : Environment and Sustainability			
PO 7	0.16	0.15	Target level is attained
Action Plan:Attained by assigning projects related to economical and environmental for final year			
PO 8 : Ethics			
PO 8	0.30	0.26	Target level is attained
Action Plan:Attained by conducting seminar and guest lectures on ethics			
PO 9 : Individual and Team Work			
PO 9	0.80	0.75	Target level is attained
Action Plan:Attained by conducting leadership training program and team building activities			
PO 10 : Communication			
PO 10	0.77	0.74	Target level is attained
Action Plan: Attained by conducting Alumni meets, curricular and co-curricular events and activity methods			
PO 11 : Project Management and Finance			
PO 11	0.26	0.23	Target level is attained
Action Plan: Attained by making students to develop projects by considering financial aspects			
PO 12 : Life-long Learning			
PO 12	0.70	0.60	Target level is attained
Action Plan: Attained by providing the strong basics of the Engineering subjects knowledge which paves the way for their life-long learning. Hence the students can adapt to the technology change.			

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Problem Solving Skills – Graduates will be able to apply their knowledge in emerging electronics and communication engineering techniques to design solutions and solve complex engineering problems.			
PSO 1	0.78	0.65	Target level is attained
Action Plan: The target level is attained by organizing guest lectures by eminent personalities on			

the specific subjects and the experts lecture at college. So that students could solve complex engineering problems.			
PSO 2 : Professional Skills – Graduate will be able to think critically, communicate effectively, and collaborate in teams through participation in co and extra- curricular activities.			
PSO 2	0.56	0.48	Target level is attained
Action Plan:Attained by conducting co-curricular and extra-curricular events , so that students would develop their professional skills.			
PSO 3 : Successful Career – Graduates will possess a solid foundation in Electronics and Communications engineering that will enable them to grow in their profession and pursue lifelong learning through post-graduation and professional development			
PSO 3	0.50	0.30	Target level is attained
Action Plan: Attained by internships and guiding projects in different domains such as DSP, VLSI and Embedded Systems etc for professional development. This helps the students in life-long learning.			
PSO 4 : Society Impact – Graduate will be able to work with the community and collaborate to develop technological solutions that would promote sustainable development in the society			
PSO 4	0.39	0.19	Target level is not attained
Action Plan: Attained by conducting Workshop on IOT projects related to society and visiting industry to expand their practical Knowledge.			

Note: Attainment percentage = (Attained value/ Planned Value)*100
If it is less than 50% then it is not attained and considered as gap

7.1.2 Identification of Gaps

Batch	Gap POs/ PSOs
2016-20	0
2015-19	PS03, PSO4
2014-18	PS04
2013-17	0

7.1.3 Actions taken based on Gaps

S.No	**Actions taken**
1	**Seminar on "Intellectual Property Rights".**
2	**Certificate course on IOT using Ardunio" for II year students**

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

IQAC conducts monthly and semester wise audits in each of the departments where the team reviews the various documents filed.

On a monthly basis, the IQAC audits the following activities

1. Technical seminars
2. Guest lectures
3. Technical workshops
4. Industrial institute interaction
5. Industrial visit
6. Visit from adjunct faculty
7. Implementation of innovative teaching-learning methodologies
8. Consultancy with industry
9. Mentor-mentee interaction
10. Study hours conducted for difficult subjects
11. Faculty workload
12. Student attendance

On a semester basis, the IQAC audits the following activities

1. Academic calendar and time table
2. Internal examinations and evaluation
3. Course outcome attainment through internal examination
4. Course outcome attainment through external examination
5. Course outcomes-program outcomes attainment
6. Student enrolment ratio
7. Academic performance of students
8. Students placements, higher studies, and entrepreneurship
9. Student-faculty ratio
10. Faculty qualification
11. Faculty-cadre proportion
12. Faculty retention

13. Laboratory facilities
14. Student feedback and action taken reports
15. Elective subject selection process
16. BOS, academic council membership
17. Faculty professional body memberships

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Item	2016-17	2017-18	2018-19	2019-20
Total No. of Final Year Students (N)	53	37	83	33
No. of students placed in companies or Government sector (x)	25	16	37	11
No. of students admitted to higher studies with valid qualifying scores(Y)	12	05	20	0
No. of students turned entrepreneur in engineering/technology (z)	1	0	0	0
x + y + z =	38	21	57	11
Placement Index: (X+Y+Z)/N	0.72	0.57	0.69	0.33
Average placement= (P1 + P2 + P3)/4	0.57			
Assessment Point=10 X Average Placement Index	5.7			

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

Item		2020-21	2019-20	2018-19	2017-18
State/ University/ Level Entrance Examination/ Others EAMCET	No of students admitted	31	69	65	36
	Opening Score/Rank	29348	48734	43793	49189
	Closing Score/Rank	84810	99442	97710	79201
Name of the Entrance Examination for Lateral Entry or lateral entry details ECET	No of students admitted	-	11	1	1
	Opening Score/Rank	-	1405	3503	2487
	Closing Score/Rank	-	3342	3503	2487

8. FIRST YEAR ACADEMICS

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

List of Faculty
Academic Year 2019-20

S.No.	Name	PAN No.	Qualification	Date of Aquiring Highest degree	Area of Specialization	Designation	Date of Joining	Teaching Load	Date on which Designated as Professor/ Associate	Nature of Association (Regular/Contract/ Adiunct)	Currently Associated (Y/N)	If contractual mention Full time or Part time	Date of Leaving (In case
1.	Dr. Srinivas Rao Tumati	AFVPT9110L	Ph.D	22.07.2009	Chemistry	Professor	14.05.2018	18	-	Regular	No	-	31.05.2020
2.	Dr. I A P S Murthy	AADPI1782L	Ph.D	31.07.1992	Chemistry	Professor	15.07.2019	18	-	Regular	No	-	01.06.2020
3.	Kalpana	BCAPG4029G	M.SC	25.08.2012	Chemistry	Assistant Professor	04.07.2019	24	-	Regular	Yes	-	-
4.	Dr. Chennakesavaiah	BKVPB1311D	Ph. D	28.06.2011	Maths	Associate Professor	25.04.2018	18	-	Regular	No	-	01.09.2020
5.	Mr.Ather Ali Mirza	ALSPM0018P	M.Sc	10.06.1982	Physics	Assistant Professor	04.07.2019	24	-	Regular	No	-	01.05.2020
6.	Dr. Ujwal	DKOPP1837D	Ph.D	22.03.2013	Radiation Physics	Assistant Professor	20-01-2020	18	-	Regular	No	-	09.06.2021
7.	Mrs.Zareena Zameer	AOQPP4437C	MA	10.04.2001	English	Assistant Professor	11.07.2018	24	-	Regular	Yes	-	-
8.	Mr.Golla Narsimhulu	AJJPN6103B	M.Sc	20.06.2008	Maths	Associate Professor	01.07.2009	24	-	Regular	Yes	-	-
9.	Sujatha	CMSPK2839M	M. Sc	10.07.2004	Maths	Assistant Professor	01.07.2019	24	-	Regular	No		29.09.2020
10.	Ms.P Aruna	APHPC3232L	MA	15.04.1997	H&S/MBA	Assistant Professor	28.6.2017	18	-	Regular	No.	-	30.04.2020
11.	Mr.P Paramanandha Rao	CUWPP5890F	MBA	25.07.2015	H&S/MBA	Assistant Professor	30.01.2017	24	-	Regular	Yes	-	-
12.	Mr.Dumsa Mallesham	CZIPM4630H	MBA	07.08.2014	H&S/MBA	Assistant Professor	24.08.2017	16	-	Regular	Yes	-	-
13.	Dr. Ananthaiah J	AIMPJ8476F	Ph.D	11.05.2015	Physics	Associate Professor	05.12.2016	18	-	Regular	Yes	-	-
14.	Ms.P Sophia Lawrance	BDPPP6163A	MA	04.04.2008	English	Assistant Professor	20.08.2018	18	-	Regular	Yes	-	-
15.	Ms.M Srilakshmi	AMTPM9715H	M .Sc	01.04.2016	Physics	Assistant Professor	26.07.2017	18	-	Regular	No	-	15.08.2020

16.	Dr Madhulita S	GGTPS7480D	Ph.D	01.08.2018	Physics	Professor	17.06.2019	18		Regular	Yes		
17.	K Thangamani	CSEPK5595C	M.Tech	02.11.2016	Geo Technical engineering	Assistant Professor	08.12.2016	18	-	Regular	Yes	-	-
18	Khamruddin Syed	BMFPS5824N	M.Tech	21.08.2006	Electrical Power System	Associate Professor	23.05.2011	18	-	Regular	Yes	-	-
19	K Kalpana	CGFPK8797M	M.Tech	11.11.2014	Machine Designing	Assistant Professor	30.06.2016	18	-	Regular	Yes	-	-
20	Deepika Ainapur	ASAPA3127C	M.Tech	07.09.2014	Digital Electronics	Assistant Professor	18.09.2014	0	-	Regular	Yes	-	-
21	Angotu Saida	DWUPS8691J	M.Tech	28.01.2011	Electronics & Communication Engineering	Assistant Professor	01.07.2013	0	-	Regular	Yes	-	-
22	Md Asif	BZJPA2575D	M.Tech	10.01.2012	Embedded Systems	Assistant Professor	01.06.2017	0	-	Regular	Yes	-	-
23	Mahesh Reddy	AMCPR9442F	M.Tech	30.06.2012	Thermal Power Engineering	Associate Professor	15.12.2017	18	-	Regular	Yes	-	-
24	RAYAPUDI HIMA SAGARIKA	AIPPH2353A	M.Tech	31.12.2014	CSE	Assistant Professor	08-02-2017	13		Regular	Yes	-	
25	ASHWINI	BARPG0340P	M.Tech	07.10.2015	SOFTWARE ENGINEERING	Assistant Professor	08-02-2017	11		Regular	Yes	-	
26	Raghu Kumar Lingamallu	AFQPL1899D	M.Tech	17.12.009	IP	Associate Professor	06.12.2016	6	-	Regular	Yes	-	-
27	Y Venkat Rao	AILPV0325N	M.Tech	16.01.2014	CSE	Assistant Professor	17.06.2011	12	-	Regular	Yes	-	-
28	S Sathish	EJQPS1489N	M.Tech	21.11.2014	Thermal Engineering	Assistant Professor	06.06.2017	18	-	Regular	Yes	-	-

List of Faculty
A.Y. 2018-19

S.No.	Name	PAN No.	Qualification	Drae of Aquiring highest degree	Area of Specialization	Designation	Date of Joining	Teaching Load	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)	Currently Associated (Y/N)	If contractual mention Full time or Part time	Date of Leaving (In case Currently Associated is "No")
1.	Dr. Srinivas Rao Tumati	AFVPT9110L	Ph.D	22.07.2009	Chemistry	Professor	14.05.2018	18	-	Regular	No	-	31.05.2020
2.	Dr. Chennakesavaiah	BKVPB1311D	Ph. D	28.06.2011	Maths	Associate Professor	25.04.2018	18	-	Regular	No	-	01.09.2020
3.	Mrs.Zareena Zameer	AOQPP4437C	MA	10.02.2001	English	Assistant Professor	11.07.2018	24	-	Regular	Yes	-	-
4.	Mr.Golla Narsimhulu	AJJPN6103B	M.Sc	20.06.2008	Maths	Associate Professor	01.07.2009	24	-	Regular	Yes	-	-
5.	Ms.P Aruna	APHPC3232L	MA	05.04.1997	H&S/MBA	Assistant Professor	28.6.2017	18	-	Regular	No	-	30.04.2020
6.	Mr.P Paramanandha Rao	CUWPP5890F	MBA	25.07.2015	H&S/MBA	Assistant Professor	30.01.2017	18	-	Regular	Yes	-	-
7.	Mr.Dumsa Mallesham	CZIPM4630H	MBA	07.08.2014	H&S/MBA	Assistant Professor	24.08.2017	18	-	Regular	Yes	-	-
8.	Mr.M Amarnath	AYBPM8946Q	M. Sc	01.05.2005	Maths	Assistant Professor	05.07.2012	16	-	Regular	No	-	15.05.2019
9.	Dr. Venkanna Rapolu	BUQPR1917N	Ph.D	01.06.2016	Chemistry	Associate Professor	03.09.2017	16	-	Regular	No	-	14.05.2019
10.	Ms.Alajangi Revati	AZAPA9081A	M. Sc	01.04.2011	Chemistry	Assistant Professor	03.12.2016	16	-	Regular	No	-	14.05.2019
11.	Dr. Ananthaiah J	AIMPJ8476F	Ph.D	11.05.2015	Physics	Associate Professor	05.12.2016	18	-	Regular	Yes	-	-

12.	Ms. M Madhavi	DNQPM1823P	M. Sc	01.05.2016	Physics	Assistant Professor	29.06.2017	16	-	Regular	No	-	14.05.2019
13.	Ms. P Madhavi	BRIPM9828C	MA	20.07.1987	English	Associate Professor	17.07.2017	16	-	Regular	No	-	14.05.2019
14.	Dr. T Naveen Reddy	AYNPT2486Q	Ph.D	23.06.2017	Chemistry	Associate Professor	16.08.2017	18	-		No	-	15.05.2019
15.	Ms.P Sophia Lawrance	BDPPP6163A	MA	04.04.2008	English	Assistant Professor	20.08.2018	18	-	Regular	Yes	-	-
16.	Dr. N Sathyan	APDPS4144R	Ph.D	20.06.1997	Physics	Professor	27.08.2018	16	-	Regular	No	-	14.05.2019
17.	Mr. Nilakanta Shetkar	ENJPS0329Q	M. Sc	01.06.2014	Maths	Assistant Professor	18.09.2018	18	-	Regular	No	-	17.06.2019
18	Ms.A Mahalakshmi	AKTPA1157H	M .Sc	04.04.2005	MGMT/H&S	Assistant Professor	19.01.2015	0	-	Regular	No	-	17.04.2019
19	Humera Nafees	BAHPN9113M	MA	01.06.2010	English	Assistant Professor	26.10.2015	0		Regular	No	-	04.07.2019
20	K Thangamani	CSEPK5595C	M.Tech	12.11.2016	Geo Technical engineering	Assistant Professor	08.12.2016	18	-	Regular	Yes	-	-
21	Khamruddin Syed	BMFPS5824N	M.Tech	21.08.2006	Electrical Power System	Associate Professor	23.05.2011	18	-	Regular	Yes	-	-
22	K Kalpana	CGFPK8797M	M.Tech	11.11.2014	Machine Designing	Assistant Professor	30.06.2016	18	-	Regular	Yes	-	-
23	Deepika Ainapur	ASAPA3127C	M.Tech	17.09.2014	Digital Electronics	Assistant Professor	18.09.2014	18	-	Regular	Yes	-	-
24	Angotu Saida	DWUPS8691J	M.Tech	28.01.2011	Electronics & Communication Engineering	Assistant Professor	01.07.2013	0	-	Regular	Yes	-	-
25	Md Asif	BZJPA2575D	M.Tech	10.01.2012	Embedded Systems	Assistant Professor	01.06.2017	0	-	Regular	Yes	-	-
26	Mahesh Reddy	AMCPR9442F	M.Tech	30.06.2012	Thermal Power	Associate Professor	15.12.2017	18	-	Regular	Yes	-	-

					Engineering								
27	RAYAPUDI HIMA SAGARIKA	AIPPH2353A	M.Tech	31.12.2014	CSE	Assistant Professor	08-02-2017	13		Regular	Yes	-	
28	ASHWINI	BARPG0340P	M.Tech	07.10.2015	SOFTWARE ENGINEERING	Assistant Professor	08-02-2017	11		Regular	Yes	-	
29	Raghu Kumar Lingamallu	AFQPL1899D	M.Tech	17.12.2009	IP	Associate Professor	06.12.2016	16	-	Regular	Yes	-	-
30	Y Venkat Rao	AILPV0325N	M.Tech	16.01.2014	CSE	Assistant Professor	17.06.2011	12	-	Regular	Yes	-	-
31	S Sathish	EJQPS1489N	M.Tech	21.11.2014	Thermal Engineering	Assistant Professor	06.06.2017	18	-	Regular	Yes	-	-

List of Faculty
A.Y. 2017-18

S.No.	**Name**	**PAN No.**	**Qualification**	**Date of airing highest degree**	**Area of Specialization**	**Designation**	**Date of Joining**	**Teaching Load**	**Date on which Designated as Professor/ Associate Professor**	**Nature of Association (Regular/Contract/ Adjunct)**	**Currently Associated (Y/N)**	**If contractual mention Full time or Part time**	**Date of Leaving** (In case Currently Associated is "No")
1.	Mr.Golla Narsimhulu	AJJPN6103B	M.Sc	20.06.2008	Maths	Associate Professor	01.07.2009	18	-	Regular	Yes	-	-
2.	Ms.P Aruna	APHPC3232L	MA	15.04.1997	H&S/MBA	Assistant Professor	28.6.2017	18	-	Regular	Yes	-	-
3.	Mr.P Paramananda Rao	CUWPP5890F	MBA	25.07.2015	H&S/MBA	Assistant Professor	30.01.2017	18	-	Regular	Yes	-	-
4.	Mr.Dumsa Mallesham	CZIPM4630H	MBA	07.08.2014	H&S/MBA	Assistant Professor	24.08.2017	18	-	Regular	Yes	-	-
5.	Mr.M Amarnath	AYBPM8946Q	M. Sc	01.05.2005	Maths	Assistant Professor	05.07.2012	18	-	Regular	No	-	15.05.2019
6.	Dr. Venkanna Rapolu	BUQPR1917N	Ph.D	01.06.20165	Chemistry	Associate Professor	03.09.2017	18	-	Regular	No	-	14.05.2019

7.	Ms.Alajangi Revati	AZAPA9081A	M. Sc	1.04.2011	Chemistry	Assistant Professor	03.12.2016	16	-	Regular	No	-	14.05.2019
8.	Dr. Ananthaiah J	AIMPJ8476F	Ph.D	11.05.2015	Physics	Associate Professor	05.12.2016	24	-	Regular	Yes	-	-
9.	Ms. M Madhavi	DNQPM1823P	M. Sc	01.05.2016	Physics	Assistant Professor	29.06.2017	18	-	Regular	No	-	14.05.2019
10.	Ms. P Madhavi	BRIPM9828C	MA	20.07.1987	English	Associate Professor	17.07.2017	18	-	Regular	No	-	14.05.2019
11.	Dr. T Naveen Reddy	AYNPT2486Q	Ph.D	23.06.2017	Chemistry	Associate Professor	16.08.2017	24	-	Regular	No	-	15.05.2019
12.	Dr. N Sathyan	APDPS4144R	Ph.D	20.06.1997	Physics	Professor	27.08.2018	18	-	Regular	No	-	14.05.2019
13.	Mr. Nilakanta Shetkar	ENJPS0329Q	M. Sc	01.06.2014	Maths	Assistant Professor	18.09.2018	18	-	Regular	No	-	17.06.2019
14.	Mr. G A Bhaskar	AXMPG1384N	MA	01.04.2002	English	Assistant Professor	01.10.2011	24	-	Regular	No	-	30.04.2018
15.	Ms.A Mahalakshmi	AKTPA1157H	M .Sc	01.04.2005	MGMT/ H&S	Assistant Professor	19.01.2015	18	-	Regular	No	-	17.04.2018
16.	Mr.Amatul Baseer Sazia	AMFPA1877N	M .Sc	20.09.2008	MGMT/ H&S	Assistant Professor	04.03.2016	24	-	Regular	No	-	19.05.2018
17.	Mr.Gaurav Singh	AMFPA1877N	M .Sc	20.06.2008	Chemistry	Assistant Professor	16.06.2016	18	-	Regular	No	-	13.04.2018
18	Dr. C Mallikarjuna Reddy	CHIPS6274F	Ph. D	10.10.2011	Maths	Associate Professor	01.12.2016	18	-	Regular	No	-	30.03.2018
19	Ms.M Srilakshmi	AMTPM9715H	M .Sc	01.04.2016	Physics	Assistant Professor	26.07.2017	24	-	Regular	No	-	15.08.2019
20	Dr. Mohd Ahmed	DWUPM2114N	Ph.D	02.04.2013	Maths	Associate Professor	30.08.2017	18	-	Regular	No	-	06.06.2018
21	Mr.Gopi Nalla	BBEPM7364K	M .Sc	02.04.2007	Physics	Assistant Professor	03.01.2018	24	-	Regular	No	-	07.04.2018
22	Dr. Ayyappa Bathinapatla	AOQPN9486B	Ph.D	25.03.2015	Physics	Associate Professor	03.01.2018	18	-	Regular	No	-	03.04.2018
23	Ms.N Lalitha Kumari	APNPD9453N	MA	02.04.2007	English	Assistant Professor	08.07.2017	18	-	Regular	No	-	29.03.2018

24	Ms.Noorjahan	ANCPJ6897P	MSC	15.05.2006	Maths	Assistant Professor	20.07.2017	18		Regular	No		10.04.2018
25	K Thangamani	CSEPK5595C	M.Tech	12.11.2016	Geo Technical engineering	Assistant Professor	08.12.2016	24	-	Regular	Yes	-	-
26	Khamruddin Syed	BMFPS5824N	M.Tech	21.08.2006	Electrical Power System	Associate Professor	23.05.2011	18	-	Regular	Yes	-	-
27	K Kalpana	CGFPK8797M	M.Tech	11.11.2014	Machine Designing	Assistant Professor	30.06.2016	18	-	Regular	Yes	-	-
28	Deepika Ainapur	ASAPA3127C	M.Tech	17.09.2014	Digital Electronics	Assistant Professor	18.09.2014	00	-	Regular	Yes	-	-
29	Angotu Saida	DWUPS8691J	M.Tech	28.01.2011	Electronics & Communication Engineering	Assistant Professor	01.07.2013	0	-	Regular	Yes	-	-
30	Md Asif	BZJPA2575D	M.Tech	10.01.2012	Embedded Systems	Assistant Professor	01.06.2017	0	-	Regular	Yes	-	-
31	Mahesh Reddy	AMCPR9442F	M.Tech	30.06.2012	Thermal Power Engineering	Associate Professor	15.12.2017	18	-	Regular	Yes	-	-
32	RAYAPUDI HIMA SAGARIKA	AIPPH2353A	M.Tech	31.12.2014	CSE	Assistant Professor	08-02-2017	118		Regular	Yes	-	
33	ASHWINI	BARPG0340P	M.Tech	07.10.2015	SOFTWARE ENGINEERING	Assistant Professor	08-02-2017	12		Regular	Yes	-	
34	Raghu Kumar Lingamallu	AFQPL1899D	M.Tech	17.12.2009	IP	Associate Professor	06.12.2016	12	-	Regular	Yes	-	-
35	Y Venkat Rao	AILPV0325N	M.Tech	16.01.2014	CSE	Assistant Professor	17.06.2011	24	-	Regular	Yes	-	-
36	S Sathish	EJQPS1489N	M.Tech	21.11.2014	Thermal Engineering	Assistant Professor	06.06.2017	18	-	Regular	Yes	-	-

Year	Number Of Students (approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR (Limited to Max.5)
2017-18(CAYm2)	60	7	9	5
2018-19(CAYm1)	120	7	17	5
2019-20(CAY)	120	6	20	5
Average	100	6	15	5

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

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Postgraduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2017-18	3	16	3	21
2018-19	6	17	6	13
2019-20	5	15	6	11

8.3. First Year Academic Performance

Academic Performance	2019-20	2018-19	2017-18
Mean of CGPA or mean percentage of all successful students(X)	5.07	5.68	5.67
Total Number of successful students(Y)	93.00	49.00	37.00
Total Number of students appeared in the examination(Z)	103.00	54.00	44.00
API [X*(Y/Z)]	4.58	5.16	4.77

8.4 Attainment of Course Outcomes of first year courses

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

Assessment Process:

Assessment of Course Outcomes is based upon the performance in each semester in

I. Direct Assessment
II. Indirect Assessment

Direct Assessment

1. Continuous Internal Assessment (CIA)
2. Semester End Examination conducted by the University (SEE)

Type of Course	Internal Marks (CIA)	External Marks (SEE)	Total marks	Net CO attainment level as per weightage
Theory	Descriptive (10 Marks) Objective (10Marks) Assignment (5 Marks)	75	100	0.3*CIA+0.7*SEE
Laboratory	Day to Day Evolution (15 Marks) Internal Exam (10 Marks)	50	75	0.3*CIA+0.7*SEE
Project	50	150	200	0.3*CIA+0.7*SEE

Note: The attainment level is determined as given in table, as per the ratio of students scoring the marks both in CIA and SEE

Level - 1: 38% of students scoring 40% of Marks

Level - 2: 48% of students scoring 40% of Marks

Level- 3: 58% of students scoring 40% of Marks

Indirect Assessment:

Indirect assessment is done from the following

1.Feedback from Students

2. Program exit survey

3. Feedback from Alumini

For calculating final attainment 75% from direct and 25% from indirect assessment

Attainment = 0.75 * direct assessment +0.25* indirect assesment

8.4.2 Record the attainment of Course Outcomes of all first year courses

A.Y : 2017-18

Course Code	Course Name	Internal Attainment level (I)	External Attainment level(E)	overall attainment (0.3*I+0.7*E)
C101	Mathematics-I	3	3	3
C102	Engineering Chemistry	3	3	3
C103	Engineering Physics-1	3	3	3
C104	Professional Communication in English	3	3	3
C105	Engineering Mechanics	3	3	3
C106	Basic Electrical and Electronics Engineering	3	3	3
C107	English Language Communication Skills LAB	3	3	3
C108	Engineering Workshop LAB	3	3	3
C109	Engineering Physics-II	3	3	3
C110	Mathematics-II	3	3	3
C111	Mathematics-III	3	3	3
C112	Computer Programming in C	3	3	3
C113	Engineering Graphics	3	3	3
C114	Engineering Chemistry LAB	3	3	3
C115	Engineering Physics LAB	3	3	3
C116	Computer Programming in C LAB	3	3	3

8.5. Attainment of Program Outcomes from first year courses

8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable

First year POs Attainment: A.Y. 2017-18

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	1.71	1.08	1.29	0.86	-	-	-	-	-	-	-	0.64
C102	1.80	0.68	0.43	0.66	0.22	0.22	-	-	-	-	0.47	0.47
C103	1.72	0.42	0.22	-	-	-	0.64	-	-	-	0.65	0.65
C104	0.85	-	-	0.64	2.13	0.64	1.28	2.55	0.85	2.55	2.13	-
C105	1.97	1.30	-	0.22	-	-	0.22	-	0.65	-	0.65	0.65
C106	1.62	1.22	0.19	0.62	-	-	0.42	0.19	0.19	-	0.4	0.4
C107	0.75	-	-	0.75	2.50	0.75	1.50	3.00	1.00	3.00	2.50	-
C108	2.00	0.75	0.50	-	0.50	1.00	1.00	0.25	1.00	-	0.50	2.00
C109	1.73	0.21	-	-	-	-	-	-	-	-	-	0.86
C110	1.12	1.14	0.93	1.15	-	-	-	-	-	-	-	0.37
C111	1.42	1.25	1.04	1.22	0.42	-	-	-	-	-	-	0.22
C112	1.92	0.17	-	1.39	-	-	-	-	-	-	-	-
C113	1.38	0.23	0.23	0.23	0.46	-	-	-	-	-	0.23	0.23
C114	1.75	1.50	1.25	-	1.00	-	-	-	-	-	-	0.25
C115	2.50	1.00	0.75	-	1.25	-	-	-	-	-	-	0.25
C116	1.75	1.50	1.25	-	1.00	-	-	-	-	-	-	0.25

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.62	0.89	0.73	0.77	1.05	0.65	0.84	1.50	0.74	2.78	0.94	0.56
CO Attainment	1.22	0.67	0.55	0.58	0.79	0.49	0.63	1.12	0.55	2.08	0.71	0.42

PSOs Attainment:

Course	PSO1	PSO2	PSO3	PSO4
C101	1.28	0.86	0.42	0.64
C102	1.53	0.45	-	0.23
C103	0.43	-	-	-
C104	0.21	0.43	2.34	-
C105	-	-	0.87	-
C106	0.41	0.19	-	0.40
C107	0.25	0.50	2.75	-
C108	-	2.00	-	-
C109	0.43	-	-	0.22
C110	1.15	1.12	0.36	0.54
C111	1.04	0.87	0.40	0.65
C112	0.17	0.17	-	-
C113	0.23	0.23	-	-
C114	-	-	-	-
C115	-	-	-	-
C116	0.50	-	-	-

PSO Attainment Level

Course	PSO1	PSO2	PSO3	PSO4
Direct Attainment	0.64	0.68	1.19	0.45
CO Attainment	0.48	0.51	0.89	0.34

8.5.2 Actions taken based on the results of evaluation of relevant POs

PO Attainment Levels and Actions for Improvement – A.Y 2017-18

POs	Target Level	Attainment Level	Observations
PO 1	**1.84**	**1.62**	**Target Level is attained**
Students need to apply the knowledge of mathematics, science, engineering fundamentals and specialization electronics & communication engineering to solve complex engineering problems.			
PO 2	**1.06**	**0.89**	**Target Level is attained**
Students are required to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences.			
PO 3	**0.82**	**0.73**	**Target Level is attained**
Conducted program on psycho motor skills on developing prototypes through project based assignments to design solutions for complex engineering problems and design system components.			
PO 4	**0.95**	**0.77**	**Target Level is attained**
Students have to 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. To attain the target more industrial visit have been planned.			
PO 5	**1.11**	**1.05**	**Target Level is attained**
Students are being exposed to modern tools and certification level courses with the support of Industry, so that the students can predict and model the engineering activities.			
PO 6	**0.69**	**0.65**	**Target Level is attained**
Action 1: Regularly visited villages around 'KGRCET Outreach' club and interact to identify social/community problems. Action 2: NSS organized medical camps on health, sanitation and community living. So, the students could realize their responsibilities relevant to the professional engineering practice.			
PO 7	**0.92**	**0.84**	**Target Level is attained**
Undertaken projects of societal context like water harvesting, non-conventional energy generation and waste management have been tried out in the college campus for sustainable development and deploy for community service.			
PO 8	**1.63**	**1.50**	**Target Level is attained**
Campus Recruitment Training and training for competitive examinations are conducted to help students prepare for aspirations after the college. Counselling support is also provided to students to help them select the right post graduate programs.			
PO 9	**0.80**	**0.74**	**Target Level is attained**
Students need to function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings. To achieve this more CLP classes are conducted for the students.			
PO 10	**3**	**2.78**	**Target Level is attained**
Students could communicate effectively on complex engineering activities with the engineering community by participating in co-curricular activities.			

PO 11	1.03	0.94	Target Level is attained
Students have been guided to choose the project and execute as an assignment. In this process they learn the skills of team management both as a team leader and team member.			

PO 12	0.62	0.56	Target Level is attained
Action 1: Encourage students to be a member of professional society and take active part at students forum. Action 2: Students are taught the fundamentals in a clear manner. So that they can apply this knowledge for their life-long learning.			

PSOs Attainment Levels and Actions for Improvement – A.Y 2017-18

PSOs	Target Level	Attainment Level	Observation

PSO 1	0.80	0.64	Target Level is attained
Training programs are conducted to focus on helping students solve technology-based problems.			

PSO 2	0.83	0.68	Target Level is attained
Conducted collaborative learning practices (CLP) as a part of student-centered activity to communicate effectively and collaborate in teams. Students are also encouraged to participate in co - curricular and extracurricular activities.			

PSO 3	1.33	1.1	Target Level is attained
learning through post-graduation and professional development			

PSO 4	0.60	0.45	Target Level is attained
NSS Unit and Unnat Bharath Abhiyan of KGRCET have conducted surveys to identify the needs and problems in the villages adopted by the institution. Students develop the ability to work with community, understand their problems and to develop technological solutions.			

9.1. Mentoring system to help at individual level (5)

Type of mentoring: Professional guidance / career advancement / course work specific / laboratory specific / all-round development.

I. Details of mentoring system:

- An effective Student mentoring system has been implemented in institute.
- Each staff is allocated with 15 students under the mentoring system.
- Each student is allotted with a faculty mentor, and each mentor maintains a mentoring sheets.
- Faculties will have a meeting with the student's periodical, their academic progress and all activities are discussed and noted in the sheet. Discrepancies in the student behavior like attendance, etc will be questioned and will be counseled with care.
- Staff will be submitting the mentoring sheets to IQAC. The IQAC will scrutinize case by case and suggest corrective measures. If necessary the IQAC will have discussions with the Parents.
- All student mentors encourage the student's participation, apart from curricular guidance in co-curricular, extra-curricular and other professional activities, which will motivate them, stimulate their growth into well groomed young professionals.
- Parent meetings are conducted bringing parents into the mentoring system as key stake-holders.
- A parent and/or student login is exclusively provided in the CMS sharing of pertinent information like attendance and academic performance of the student.
- Follow up sessions with the parents/faculty/counselors and mentors are regularly arranged with the students who have poor performance and attendance to enable them to improve their attendance and performance.

S.N.	Type of mentoring system	Functions
1	**Academics**	**Information sharing**: Share information of academic schedules and e-learning resources to enhance their knowledge database. **Academic Counseling:** Identify students with less attendance and ensure that they improve their attendance by getting counseled in the presence of mentor and HOD. **Support to the poor performers:** Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and special classes. **Laboratory manual:** Providing laboratory manual based on the experiments of the course to make students understand and know about the different laboratory experiments. **PPT Explanation:** Students are given with PPT explanation before the commencement of the each experiment to make them understand the

		principle of the experiment and the working procedure of the instruments / Experiments. **Experiment demonstration:** Faculty gives demonstration on the experiments to enhance their hands on skills to achieve the results.
2	**Placement**	**Skill Enhancement for better employ-ability:** Support their learning and enhance their laboratory and research skills through attending technical workshops, hands on training program and student symposiums. Industry based training is offered to selected student so as to enhance their chances of employ ability. **Industry oriented VIII SEM projects:** Projects are designed based on the needs of industry live projects to give the real time experience to the students to not only understand the expectations of the industry but also making them familiar with the working nature of the industry and molding them industry ready. **Training & Placement Cell guidance:** Provide Career Guidance and other training apart from arranging campus recruitment drives by the training & placement cell. **Value added training programme:** Students had undergone various training programme to enhance their placement opportunities.
3	**Extracurricular activities**	Encourage and support students towards all round development through participation in cultural and sports activities which helps to develop leadership qualities, decision making abilities, team spirit, and shapes the student into an intellectually integrated person.
4	**Personality development**	**MOOCs:** Motivate and support the students to take up online certification courses to strengthen and build up their qualifications for their Academic progression and to achieve higher career paths in the applied areas. **Professional bodies registration:** To create awareness and to enhance the knowledge about the various activities and research, students are encouraged and guided to take up registration in the professional bodies. Students are having professional bodies membership of IETE, IEEE, CSI, and SAE. **Publication in journals/Patents:** Persuade them to upgrade their domain knowledge through active perusing and encouraged them to publish review, research articles and filing Patents. **Enhancing the Research Ideas:** Encourage students to develop and discuss their ideas as a poster and oral presentations.

Efficacy of mentoring/counseling system: The mentoring system developed by the college has proved to be effective as defined by different parameters:

- **Student's Attendance:** Enhanced / improved.
- **Involvement of students in academics, co curricular and extracurricular activities:** Improved Individual student's talents/skills identified and nurtured towards excellence.
- **Student's self confidence:** Improved over the time, thus developing perseverance and ability to cope better in external professional environment and successfully tackling the external challenges.

1. Mentoring system to help at individual level

Type of Mentoring	Number of faculty Mentor			Number of students per mentor	Frequency of meeting per semester
	2019-2020	2018-2019	2017-2018		
Professional guidance	107	128	87	15	Every 15 days
Career advancement	107	128	87	15	Every 15 days
Course work specific	107	128	87	15	Every 15 days
Lab specific	107	128	87	15	Every 15 days
Total development	107	128	87	15	Every 15 days

9.2 Feedback analysis and Rewards and Corrective Measures taken, if any

Feedback collected for all courses**: YES**

Specify the feedback collection process: **Through Google forms**

Average Percentage of students who participate: **Around 85%**

Feedback analysis and reward / corrective measures taken Feedback collection process for all courses: **YES**

a. Feedback collection process.

b. Feedback assessment process.

c. System of reward / corrective measures.

a. Feedback collection process:

The institution initiated a feedback mechanism that gauges the capabilities of the faculty members and for consistent improvement and upgrading their skills. In this process Google Feedback Forms were created and mailed to all the students. They would give their feedback and submit.

Feedback Form Format

(Note: Students should read each point carefully and award points as per the scale given below against each item.)

The Scale is 1-5 i.e.

Excellent -5 Very Good-4 Good-3 Satisfactory-2 not satisfactory-1

	Subject	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6
	Faculty Name	Faculty 1	Faculty 2	Faculty 3	Faculty4	Faculty5	Faculty 6
Learning							
1	I have found the course intellectually challenging and stimulating						
2	My interest in the subject has increased because of this course						
3	I believe I have attained the learning outcomes of the course						
4	The laboratory work/assignments helped me attain the learning outcomes of the course						
5	The course notes and text book helped me attain the learning outcomes						

Enthusiasm							
6	Faculty spoke clearly and was enthusiastic about teaching the course						
7	Faculty presentations held my interest during class						
8	Faculty encouraged questions in the class						
9	Faculty support critical thinking and independent learning						
10	Faculty explained and helped in solving the tutorial questions						
11	Faculty asks questions that tap higher level thinking						
12	Faculty recognized which students did not understand and reviewed as needed						
Organization							
13	Faculty gave lectures which facilitated taking notes						
14	Faculty explanations were clear						
15	Faculty materials were well prepared						

	and carefully explained						
16	Faculty was available for help during his/her office hours						
17	Faculty started and ended their lectures / tutorial on time						
Group Interaction							
18	Students were encouraged to participate in class discussions						
19	Students were encouraged to share their ideas and knowledge with others						
20	Students encouraged to work in groups						
Individual Rapport							
21	Faculty handled student discipline fairly						
22	Faculty had a sincere interest in individual students						
23	Faculty appeared to be genuinely concerned about students and their success in class						
Extensiveness							
24	Faculty covered all the course syllabus in the time						

	available						
25	Faculty discussed all the objectives and learning outcomes and what expected from students at the start of the course						
26	Faculty adequately discussed current developments in the field						
Examinations							
27	Examinations papers were clearly written, and tested course content as stressed by the Faculty						
28	Methods of evaluating student work were fair and appropriate						
29	Feedback on examinations/tests was timely and valuable						
Assignments							
30	Assignments and quizzes were adequate and contributed to appreciation and understanding of subjects						
31	Types of assignments were formative and further enhanced the learning outcomes of the						

	course						
Overall							
32	As an overall rating, I would say I am very satisfied with the Faculty						
33	If any additional suggestions / comments						

b. Feedback assessment process:

The feedback will be taken on eight parameters: **Learning, Enthusiasm**, **Organization, Group Interaction, Individual Rapport, Extensiveness, Examinations, Assignments,** and rated on a scale of 1 to 5. Based on the points that each faculty gets, grades will be decided. The following table shows how each faculty is graded.

	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**							

Later the principal and the head of the department interact with the faculty individually and discuss the weak areas of the faculty members and how to improve their performance further. The faculty assures them with their action plan for the next feedback.

Corrective measures:

a) Explanation from the faculty will be demanded for the inappropriate result and subsequent action will be processed.

b) Faculties are asked to submit the action plan to improve the learning process if feedback is poor.

c) Counseling will be given to the concerned faculty by HOD and Principal.

d) Promoting and encouraging faculty to attend the faculty development programs (FDP) related to effective teaching methodologies.

Details of reward / corrective measures taken

Awards / rewards/ corrective actions	No. of corrective actions / awards / rewards in last 3 years		
	2019-2020	2018-2019	2017-18
No of faculty counseled for below average performance	34	33	

9.3. Feedback on facilities (5)

Assessment is based on student feedback collection, analysis and corrective action taken.

For improving the quality of facilities, standard procedure for feedback on facilities is taken up by administrative officer as per the following steps.

- ✓ Feedback is collected from the students on the facilities available in the college such as class room, infrastructure, library, labs, canteen, playground, internet facility.
- ✓ The feedback is analyzed and the necessary corrective measures are implemented after discussions with the management.

ANALYSIS OF STUDENT FEEDBACK ON FACILITIES

ACADEMIC YEAR 2019-20

The no. of Students Participated in Feedback Collection:

The Scale is: 1-5 i.e.

Excellent-5 Very Good-4 Good-3 Satisfactory-2 Not Satisfactory-1

S.No	Statement	No. of Student's Feedback				
		5	**4**	**3**	**2**	**1**
1	The prescribed books/reading materials are available in the library					
2	Results and attendance records are displayed on time					
3	The campus has adequate power Supply					
4	The classrooms are clean and well Maintained					

5	Equipment in the lab are in working condition					
6	The functioning of the placement cell is satisfactory					
7	Grievances/problems are redressed/solved well in time					
8	Available reading space in Library/seminar is satisfactory.					
9	The campus is green and eco-friendly					
10	Clean drinking water is available in the department and on the campus.					
11	Toilets/washrooms are hygienic and properly maintained					
12	The office staff are helpful					
13	Internet facilities is available in the Department					
14	The library/seminar staffs are Cooperative and helpful.					
	Total Feedback					
	Over all Feedback Assessment					
	Over all Feedback Percentage %					

9.4. Self – Learning (5) (The institution needs to specify the facilities, materials and scope for self – learning / learning beyond syllabus, webinars, podcast, MOOCs etc., and evaluate their effectiveness)

Self–Learning Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the needs for another individual to teach it.

I. Scope of Self – Learning

- Library.

- Digital library (centralized in college) for Literature Database i.e. Science Director/Pubmed central/Scirus/Medminer.
- Departmental library.
- Web based learning i.e. MOOCs (Nptel, Swayam, Coursera, Udemi, Edx), YouTube, Nat Geo etc (independently by students).
- National Digital Library.
- Professional bodies.
- Club activities.
- Assignments.
- Seminars, workshops, Symposiums and Exhibitions.
- Industrial visits.

II. Detailed list of Self – Learning facilities:

Self – Learning facilities	Description
Library	The college library provides information and ideas that are fundamental to functioning successfully in today's information and knowledge based society. The institution has automated the library by using NEWGEN LIB 3.1.3 software for smooth functioning of library activities. Number of Volumes available 22748, Bound Volumes of Journals 399 Number of E-Books 3501.

Digital Library	Faculty and students are able to access the below services in the library: ➢ Reference Service. ➢ Reprographic Service (Xerox and Printing). ➢ Quick Mail Service. ➢ Book Bank Service. ➢ Digital Library Services. ➢ Current Contents Service/journals. ➢ Current Awareness Services/newspaper. ➢ OPAC (Online Public Access to Cataloguing for Book Search) Service. ➢ Previous Question Papers Access. ➢ E-Book Services. ➢ E-Journal Services.
Departmental Library	The department is facilitated with books for UG and PPTs; videos are also stored in the department database. Availability of course material (Course File).
Web based learning	**Enrollment in MOOCs:** Students are registered in NPTEL, SWAYAM, and Spoken Tutorial to improve their academic performance. **Virtual Classes:** The institution conducts unsupervised classes in which learning is characterized by readymade learning material without instructor. DELNET, NDL, video lectures are web based learning tools.
Professional bodies / other association	Professional association offers valuable information and resources for student's career enhancement. Students have Professional bodies' membership of IETE, IEEE, CSI, and SAE.
Club Activities	**IOT Maker Space:** It is a great initiative of Telangana Academy for Skill and Knowledge (TASK) and Hyderabad Software Enterprises Association (HYSEA) promoted to all engineering colleges with an objective of looking into overall development of a student in terms of technical skills, presentation skills, innovative thinking, developing prototypes, and to get them ready as future entrepreneurs. **Block chain:** It is a distributed, decentralized, public ledger.

	Rotaract: Provide an opportunity for young men and women to enhance the knowledge and skills that will assist them in personal development. **Data Science - Artificial Intelligence Club:** Club helps students from a variety of backgrounds develop a practical understanding of computational intelligence (AI) and work together to apply programming techniques to games, robotics. **E-Yantra:** E-Yantra Lab Setup Initiative (ELSI) is a college level program under which colleges are encouraged to setup robotics labs. **National Service Scheme:** NSS program in KG Reddy College of Engineering and Technology is to create Personality Development through Community Service. **Unnat Bharat Abhiyan:** UBA started with the initiative of a group of dedicated faculty members of Indian Institute of Technology (IIT) Delhi working for long in the area of rural development and appropriate technology. **Lions Club:** Club Programs include sight conservation, hearing & speech conservation, diabetes awareness, youth outreach, international relations, environmental issues & many other programs. **Cultural club (SWD):** Different cultural activities like music, dance, dramatic and photography are organized are institute under this club.
Assignments	**Project Based Learning (PBL)**: Other than curriculum, the institute encourages the students to gain practical exposure towards the solving real time problems. All II, III, and IV year students are asked to carry out one project-based assignment every semester which is aligned to the different courses taught in the semester. Students are provided with open-ended problem statements and asked to design and build a solution prototype to address the problem.
Seminars, workshops, Symposiums and Exhibitions	**Institution's Innovation Council (IIC)**: IIC Encourage, Inspire and Nurture Young Students by Exposing them to New Ideas and Process of Resulting in Innovative Activities & Entrepreneurial in their Formative Years. **Entrepreneurship Development Cell (EDC):** The Aim of promoting Entrepreneurship Development Cell (EDC) at KG Reddy College of Engineering and Technology (KGRCET) is to nurture a passion for self employment. Institute conducted more than 75 Seminars, and workshops, in last 3 years.

Industrial visits	Industrial Visit ELICO, Industry visit to T-Hub, Industry Visit to Idea Labs, Industrial visit to Rub Site Work south central Railway, Industrial visit to BHEL are some names of industries visited by students. Institute organized 77 Industrial visits, in last 3 years.

9.5. Career guidance, Training, Placement (10)

I. The following are the programs are organizing by the placement cell to enhance the Employ-ability & Employment skills for the students.

1. E-learning System (GEMS) to develop communication skills and aptitude.
2. Guest Lectures.
3. Workshops.
4. Value Added Programmes.
5. Seminars.
6. Industrial Visits.
7. Soft skills Training.
8. Aptitude Training.
9. Personality Development Programs.
10. Mock Interviews.
11. Recruitment Drives.
12. Higher Education Counseling.
13. Entrepreneur Development Programs.

II. Career counseling for higher studies Career guidance and motivational lectures by Alumni, entrepreneurs, External guests and faculty are organized frequently in the Institute.

- The placement cell organizes seminars on higher studies and conduct aptitude training sessions, Gate coaching sessions.
- Foundation course for Civil Services is offered for interested students appearing for Civil Services.
- Many books and periodicals are available in the library for the students.

III. Pre-Placement Training:

- Aptitude Development training sessions are conducted for all programmes of UG.
- Soft skills development sessions are scheduled for all UG programmes.

CRT Syllabus for ECE & CSE

ACADEMIC YEAR 2019-20

1. **C Basics**
    a. History of C
    b. Characteristics of C
    c. C Program Structure
    d. Variables

        i. Defining Global Variables
        ii. Printing Out and Inputting Variables
    e. Constants
    f. Arithmetic Operations
    g. Comparison Operators
    h. Logical Operators
    i. Tokens
    j. Data types
    k. Control String
    l. Exercises

2. **Conditionals**
    a. The if statement
    b. The ? operator
    c. The switch statement
    d. Exercises
3. **Looping and Iteration**
    a. The for statement
    b. The while statement
    c. The do-while statement
    d. break and continue
    e. Exercises
4. **Arrays and Strings**
    a. Single and Multi-dimensional Arrays
    b. Strings
    c. Exercises
5. **Functions**
    a. Void functions
    b. Functions and Arrays
    c. Function Prototyping
    d. Exercises
6. **Further Data Types**
    a. Structures
        i. Defining New Data Types
    b. Unions

c. Coercion or Type-Casting
d. Enumerated Types
e. Static Variables
f. Exercises

7. Pointers

a. What is a Pointer?
b. Pointer and Functions
c. Pointers and Arrays
d. Arrays of Pointers
e. Multidimensional arrays and pointers
f. Static Initialization of Pointer Arrays
g. Pointers and Structures
h. Common Pointer Pitfalls
    i. Not assigning a pointer to memory address before using it
    ii. Illegal indirection
i. Exercise

8. Dynamic Memory Allocation and Dynamic Structures

a. Malloc, Sizeof, and Free
b. Calloc and Realloc
c. Linked Lists
d. Full Program: queue.c
e. Exercises

9. Advanced Pointer Topics

a. Pointers to Pointers
b. Command line input
c. Pointers to a Function
d. Exercises

10. Low Level Operators and Bit Fields

a. Bitwise Operators
b. Bit Fields
    i. Bit Fields: Practical Example
    ii. A note of caution: Portability
c. Exercise

11. The C Preprocessor

a. #define
b. #undef
c. #include
d. #if -- Conditional inclusion
e. Preprocessor Compiler Control
f. Other Preprocessor Commands
g. Exercises

IV. Procedure for campus Recruitment

Campus recruitment for final year students starts from November onwards every year. Recruitment after passing out of the campus will also be done depending on the availability of non placed students.

1. Interested recruiters are requested to mail the following details to placements@kgr.ac.in.
2. Job Profile.
3. Job Location.
4. Training Period.
5. CTC during & after Training.
6. Designation before & after Training.
7. Service agreement if any – No. of years & Bond amount if any
8. Degrees & Branches required.
9. Eligibility Criteria – Marks (X / XII/dip / Current degree/UG for PG) and Arrear Status.
10. Selection Process- Test (Online / Not)/GD/Interview.
11. Facilities required for campus recruitment.
12. Preferred dates to visit.
13. Based on the above data, students will register at Placement Centre. No. of interested students will be informed to the recruiting company.
14. Based on the no. of interested students, company can fix the venue either at college or at their office. Resumes of the interested students can also be sent to the company for short listing at their end. If the policy of the company is to conduct a pooled campus drive for colleges, we are ready to conduct here in our campus.
15. List of Selected candidates and offer letters shall be given to the Placement Officer at the end of the process. If there is any delay in announcement of results, students will be permitted to attend the next company. If the students get placement in the next company, they will not be permitted to get the offer from the previous company if get selected.

16. The recruiters are requested to give the feedback of the quality of the students at the end of the selection process and also after the training period. This will help us to improve continuously and offer better numbers than the previous year.
17.

V. Training &Placement team:

a) Each department has a faculty placement coordinator for a better coordination and timely flow of information about the training and placements to the concerned.

b) Each department (section wise) has two student coordinators (one male and one female).

c) A training coordinator monitors the task assigned to all the department faculty coordinators and the student coordinator.

S.NO	**NAME**	**DEPARTMENT**
1	Mrs. P.Samyukutha	Advisor
2	Mr. Md.Asif	Training &Placement officer
3	Garapati Venkata Sai Prasad	Placement coordinator Civil engineering
4	Raghu Kumar Lingamall	Placement coordinator Computer science engineering
5	Mr. Midthur A.Salman Khan	Placement coordinator Mechanical engineering
6	Naveen Thiruveedhula	Placement coordinator Electrical electronics engineering
7	Mr.Ather Ali Mirza	Placement coordinator Humanities & Science
8	Mr. Vijaybhasker Reddy	Placement coordinator Master of business administration

VI. Companies Visited:

SL. NO	**NAME OF THE COMPANY VISITED ON CAMPUS**	**DATE**
1	BYJU's Learnig App	
2	TCS	
3	Deloitt	
4	AQUILA Medical Scribing Training Division	
5	Serole Info	

6	Sigaramtech	
7	Vasudhaika	
8	Everest IMS	
9	Cistron InfoTek Pvt Ltd	
10	Qspider's	
11	Hi-Fab Engineers	
12	Intellicrats	
13	Genpact	
14	KVR Rail Infra	
15	Raam Group	
16	Magnetek Enterprises	

9.6 Entrepreneurship Cell (5)

Entrepreneurship Development Cell (EDC): The Aim of promoting Entrepreneurship Development Cell (EDC) at KG Reddy College of Engineering and Technology (KGRCET) is to nurture a passion for self employment. KGRCET disseminating entrepreneurial education among the student and the staff under the mission Innovation in you, EDC organizing various skill development programmes sponsored by AICTE, DST, and MSME (Govt of India).

Institution's Innovation Council (IIC): IIC Encourage, Inspire and Nurture Young Students by exposing them to New Ideas and Process of Resulting in Innovative Activities & Entrepreneurial in their Formative Years.

I) Entrepreneurship Initiatives

- To create entrepreneurial culture in KGRCET and with other institutions in this region.
- To facilitate budding entrepreneurs by providing information on entrepreneurial opportunities.
- To conduct programs in Entrepreneurship enabling skills like product development, Market Survey, Preparation of Project Reports and Assist them in getting Technical feasibility Reports.
- To generate entrepreneurship skills by industrial development training programs with updated technologies.
- To assist entrepreneurs acquire necessary managerial skills to run the industry efficiently.
- To create an environment for self-employment, promote innovation, incubation and Entrepreneurship development through formal and non-formal programs
- To introduce the concept of Entrepreneurship in curriculum at degree levels

- To utilize the infrastructure facilities and technically trained manpower for the development of non-corporate and unorganized sectors.
- To promote employment opportunities.
- Help with Regulatory Compliance
- Help with Presentation Skills and Business Etiquettes.
- Comprehensive Business Training Programs.

Composition of EDC Cell

Sl.no.	Name of the member	Position	Department
1	Dr.M.Swaroopa	In charge	ME
2	Dr.Vandana	Member	ECE
3	Dr. Madhulitha	Member	H&S
4	Ms.Swathi	Member	EEE
5	Mr.Palendar	Member	ME
6	Mr.Mahantish.N.Paruthi	Member	CIVIL
7	Mrs. Divya	Member	CSE

Entrepreneurship Development cell Events

- Inaugurated Start and Improve Your Business (SIYB) in association with MSME CITD, Hyderabad on 23.12.2019.
- One Day Workshop on Entrepreneurship and Innovation as career Opportunities on 07.09.2019.
- Entrepreneurship Development and How to Raise Funds on 26.04.2019.
- One Day Workshop on Entrepreneurship Awareness and Opportunities on 12.12.2018.

Institution's Innovation Council (IIC) Events:

- Workshop on Cognitive skills, Design Thinking and Critical Thinking Project Expo Dr. Srinivasan Vathsal, Rt Director, DRDO IR/IPR, New Delhi (Offline Session) on 07-05-2019.
- Workshop on Cognitive skills, Design Thinking and Critical Thinking Chief Guests were S Vijay Venkatesh Co-Founder and Managing Director Syscon Solutions Private Limited and Prasanna Kumar Turaga Executive Director Automated Tooling System, India Private limited, Hyderabad. On 22-04-2019.
- Orientation and One day Workshop on Entrepreneurship and Innovation as Career Opportunities by Ms Sirisha Gondi on 17-09-2019.
- One Day Workshop on Problem Solving & Design Thinking on 21.09.19.
- Motivational Talk on My Story "Entrepreneur's and Innovators Life and Crossroad" by Mr. Uday Chaitanya @ KGRCET on 29.10.19

9.7. Co-curricular and Extra-curricular activities (10)

Documents to show the details of annual student's activities:

Annual activities: 2019-2020

Sl.No.	Event	Facilities	Participants	Months of conduction
1	Bonalu festival	College campus pots leaves rangoli banners sweets	All students and staff	July
2	Free eye checkup	F-201	all students and staff	september
3	Teachers day	Open auditorium,mike, projector and laptop, banners	all students and staff	september
4	Engineers day	Seminar hall mike, projector and laptop, banners	all students and staff	semptember
5	Flash mob	Basket bal court music system	students in rotract club	november
6	Bathukamma festival	Open lawn flowers, rangooli and music system	all students and staff	october
7	Rotract club orientation program	Seminar hall	all students and staff	september
8	Independence day	Open auditorium flowers,sweets,mike	all students and staff	august
9	Orientation program	Seminar hall mikes, laptop, projector	55 students	august

Annual activities: 2018-2019

Sl.No.	Event	Facilities	Participants	Months of conduction
1	Bonnalu festival	Open lawn pots,neem leaves	All staff and students	June
2	Sadhbavana Divas day	Seminar hall mike, projector	All staff and students	August
3	Teachers day	Seminar hall mike, projector	All staff and students	September
4	Engineers day	Seminar hall mike, projector	All staff and students	October
5	Gandhi jayanthi	Seminar hall mike, projector	All staff and students	October
6	Bathukamma festival	Open lawn flowers,plates,sweets,music system	All staff and students	October
7	Dusherra celebrations	Open lawn flowers,plates,sweets,music system	All staff and students	October
8	Deevali celebrations		All staff and students	October
9	7 Graduation day	Seminar hall miks, laptop, projector,academical dresses	All paased out students	July
10	Orientation program	Seminar hall miks, laptop, projector	55 students	August
11	Independence day	Open ground	All students and staff	August
12	Republic day celebration	Ground	All students and staff	January

		flowers,rangooli		
13	Freshers day	Blooms garden college buses	All I years and II years	January
14	Childrens day	Seminar hall mike, projector,sweets	All students and staff	November
15	Rangooli program	Campus rangooli,flowers	All students and staff	January
16	Sankranti sambaralu (mba)	Campus, rangooli,flowers	35 students and staff	January
17	Sankranti sambaralu	Campus rangooli,flowers	All students and staff	January
18	Arise 2k19	Campus	All students	January
19	Singing Competiton	F-203 hall mike	13 students	January
20	Essay writing competition	F-203 hall A 4 sheets and pens	10 students	January
21	Group dance competiton	F-203 hall music system	13 students	January
22	Solo dance competition	F-203 hall music system	13 students	January
23	Chess	Sports room	4 students	January
24	Caroom	Sports room	8 students	January
25	Badmintion	Sports room	4 students	January
26	Cricket	Sollage ground	30 students	January
27	Throw ball	Collage ground	18 students	January
28	Volley ball	Volley ball court	16 students	January
29	Basket ball	Basket ball court	14 students	January
30	Annual day	College ground	All students	January

	celebrations			

Annual activities:AY- 2017-2018

Sl.No.	Event	Facilities	Participants	Months of conduction
1	Freshers day celebrations	Auditorium,music system projector ,lightings, mikes	All first years	October
2	Childrens day	Seminar hall mike,projector,banners	All students	November 14
3	Republic day celebrations	College ground,mike	All students,staff principal	January 26
4	feb online chat by aicte	Seminar hall projector,laptop,mike	All III YEAR Students	March 03
5	Health problem caused by usage of mobile	Seminar hall projector,laptop,mike	All students	March 06
6	6th Graduation day	Seminar hall projector,laptop,mike,academical dress	All passed out students all hod's	August
7	ARISE 2K18(Management fest)	AUDITORIUM,projector,laptop,mike	MBA students along with all engineering students,ALL faculties	March 9th & 10th
8	Awareness program on enterpreneurship	Seminar hall projector,laptop,mike	all departments II III IV year students	December 12
9	Awareness on menstural health and hygene & use of napkin vending and inceneratior machines	Seminar hall projector,laptop,mike	all girl students	December 29
10	National youth	Auditorium,mike,banners,lamps,la	all students	January

	day	ptop,projector		
11	Bonalu festival	College ground,pots neem leaves rangoli colours	All students,staff	June
12	Independence day	College ground mike	All students,staff	August
13	Sadbavana diwas day	Seminar hall garlands,mike	All students,staff	August
14	Rakshabandan	Open auditorium rakhis, sweet	All staff and students	August
15	Teachers day	Seminar hall mike,cake,projector	All staff and students	September
16	Engineers day	Seminar hall mike,cake,projector	all staff and students	September
17	Bathukamma	Open lawn flowers, plates,rangooli, music system	All staff and students	September
18	Gandhi jayanthi	Seminar hall	All staff and students	October
19	Diwali festival	Ground	All staff and students	October
20	Sankranti festival	Rangoli,colurs,flowers	All staff and students	January
21	International womens day	Cycles for rally,banner,garlands	Girl students,staff, she teams moinabad police station	march

Achievements in Co-curricular activities: 2018-2019

Sl.No.	Name of the activity	No. of students participated		
		2019-2020	2018-2019	2017-2018
1	V.Subba reddy appointed as a intershala student partner (ISP) by internshala from		1	
2	Global Innovation and Enterprenership Programm			1
3	An Online Contest conducted by Texas Instruments India.			47
4	National Conference on Engineering Science Technologi in Industrial Applications			4
5	Java Fundamentals		50	
6	IBC HACK-2018.		6	
7	investor connect session held at E-SUMMIT HYDERABAD hosted by vardhaman college of Engineering on 21st and 22nd Aug,2018.		2	
8	K.V.Subba reddy appointed as a intershala student partner (ISP) by internshala from 19/9/2018 to 15/11/2018.		1	
9	2 students got rank selection for state NSS conducted at CMR college of Engineering and Technology			2
10	8 Students of ECE department have successfully completed the requirements to be recognized as a Microsoft Technology Associate.			
11	OpenGovDataHack in New Delhi	4		
12	Webinar	4		

13	National level seminar	1		
14	State level nss camp	3		
15	Golden jublee celebration at cmr	2		
16	Telangana swimming	1		
17	Hackathol	8		
18	Cricket	1		
19	Paper Publications	14	12	10

Availability of sports facilities:

List of indoor games available in the campus.

Sl. No.	Name of the sport facility	Numbers available	Place of availability	Whether available beyond regular
1	TABLE TENNIS	4	**SH-107**	**Yes**
2	CARROM	4	**SH-107**	**Yes**
3	CHESS	6	**SH-107**	**Yes**
4	TABLE SOCCER	1	**SH-107**	**Yes**

List of outdoor games available in the campus.

Sl. No.	Name of the sport facility	Place of availability	Whether available beyond college regular timings
1	VOLLEYBALL	GROUND	**Yes**
2	BASKETBALL	GROUND	**Yes**
3	SHUTTLE COURT	GROUND	**Yes**
4	THROWBALL	GROUND	**Yes**

5	CRICKET NET	GROUND	**Yes**
6	CRICKET GROUND	GROUND	**Yes**

Achievements in sport activities:

Sl. No.	**Name of the sport**	**No. of students participated and won**		
		2019-2020	**2018-2019**	**2017-2018**
1	BADMINTON FEDERATION	**1**	**1**	**1**
2	KARATE	**0**	**1**	**5**
3	AD CREATION	**0**	**1**	**0**
4	CRICKET	**15**	**11**	**16**
5	RUNNING	**0**	**0**	**1**
6	Body Building	**0**	**0**	**1**

National Service Scheme (NSS): The main aim of conducting National Service Scheme program in KG Reddy College of Engineering and Technology is to create Personality Development through Community Service. This program is to motivate and encourage, the social welfare thoughts in the students and to provide service to the society without any prejudice. NSS volunteers are dedicated to this work to ensure that every one in our society who is needy gets the every possible help from them so that they can also enhance their standards and lead a life of dignity in the society with all of us. In doing so the volunteers themselves learn a lot like how to struggle and how to lead a happy life in the extreme scarcity of resources and so on.

NSS Committee:

S No	**Name of the Member**	**Position**	**Department**
1	Dr. R S Jahagirdar	Chairman	ME (Principal)
2	Mr. M Rathna Chary	Program Officer	CIVIL
3	Mr. P Ramesh	Additional Program Officer	ECE
4	Ms. Poonam Swami	Coordinator & OSD	ECE

5	Mr. B Lingam	Dept. Coordinator	EEE
6	Mr. Sharan Kumar Patil	Dept. Coordinator	ME
7	Mrs. Sophia Lawrence	Dept. Coordinator	H&S
8	Mr. Mantesh Patil	Dept. Coordinator	CSE
9	Pooja Shreni	Student Member	CSE
s10	Pranath	Student Member	ME
11	B Mahesh	Student Member	EEE

NSS Activities

2019-2020

Sl.No	Name of activity	Name of the Village	Number of students participated	Date
1	Telangana ku Haritha haram special camp	Bakaram	20	30-08-2019
2	Free eye checkup camp	KGRCET	10	16-09-2019
3	Teachers day celebration	KGRCET	32	5/9/2019
4	NSS mega Gandhiyan youth conclave	JNTUH	15	2/10/2019
5	Electors verification programme	OU, HYDEARABAD	14	20-09-2019
6	PADA YATRA 150th birth anniversary of mahatma Gandhi	Moinabad PS to KGRCET	54	15-08-2019
7	Tree plantation programme	Moinabad PS road	41	20-072019
8	Fist full of Rice	KGRCET	28	4/11/2019
9	Pledge on tobacco free society	KGRCET	38	7/12/2019

10	Engineers Day	KGRCET	27	15-09-2019
11	NSS Orientation Day programme	KGRCET	90	14-08-2019
12	One student-one tree	Moinabad PS road	60	16-08-2019
13	NSS Golden jubilee celebrations	CMRIT	13	24-09-2019
14	Capability building & participatory training programme for nodal officers of participating institutions of UBA, Telangana	NIRD&PR	3	26-08-2019
15	A 3Day art of living programme for advancing individuals, team & organizational excellence	JNTUH	1	25-07-2019
16	Workshop on WASH Volunteerism	JNTUH	2	28-11-2019

2018-2019

s.no	Name of activity	Name of the Village	Number of students participated	Date
1	Childrens day celebration	Murthuzaguda	19	14-11-2018
2	Yogaday	KGRCET	43	19-07-2018
3	Harithaharam	KGRCET	20	21-07-2018
4	Dental screening & treatment camp	KGRCET	122	20-03-2019
5	National youth day & college level youth festival	KGRCET	42	11/1/2019
6	NSS Day celebrations	JNTUH	7	24-09-2018
7	National unity day	KGRCET	48	31-10-2018
8	Blood donation camp in KGRCET	KGRCET	154	22-01-2019
9	Road safety awareness programme	KGRCET	100	6/2/2019

10	International Yoga day	KGRCET	40	21-06-2019
11	International Yoga day	KGRCET	49	21-06-2018
12	Tree plantation programme	KGRCET	138	21-07-2018

2017-2018

sl.no	Name of activity	Name of the Village	Number of students participated	Date
1	Awareness of Yoga	KGRCET	28	21-10-2017
2	Children's Day	Chilikur village	25	14-11-2017
3	5k run on drug awareness	Necklace road	4	3/12/2017
4	A 2day workshop on electric power generation using natural resources in association with green energy technologies- industry	KGRCET	24	7/3/2018
5	Inaugural of technology based incubation centre	KGRCET	30	11/10/2017
6	Chalivendram	Moinabad PS	20	3/4/2018
7	Awareness elector program	Chilikur, kanakamamidi village, aziz nagar	46	8/1/2018
8	Essay writing on how to become responsible voter	KGRCET	26	24-01-2018
9	Awareness programme on helgth& hygienic	chilkur	32	13-12-2017
10	National youth	KGRCET	63	12/1/2108
11	Carrer guidance	KGRCET	10	9/1/2018
12	National voters day	KGRCET	73	25-01-2018
13	Awareness and campaign for enrolment of young electors	KGRCET	7	9/2/2018

14	Republic day celebrations	KGRCET	56	26-01-2018
15	Youth fest	KGRCET	7	3/2/2018
16	Special camp	chilkur	50	10/2/2018
17	Swachh Hyderabad	KGRCET	30	15-02-2018
18	Workshop on rain water harvesting	JNTUH	28	22-03-2018
19	State youth conference on " Roll of NSS in fulfilling sustainable development goals	HITM	3	22-03-2018
20	Blood Donation camp	KGRCET	161	15-02-2018
21	NSS Orientation day	KGRCET	72	20-10-2018
22	celebration of rakhi with soldiers	Golkonda army camp	50	7/6/2018

Documental Proof needed

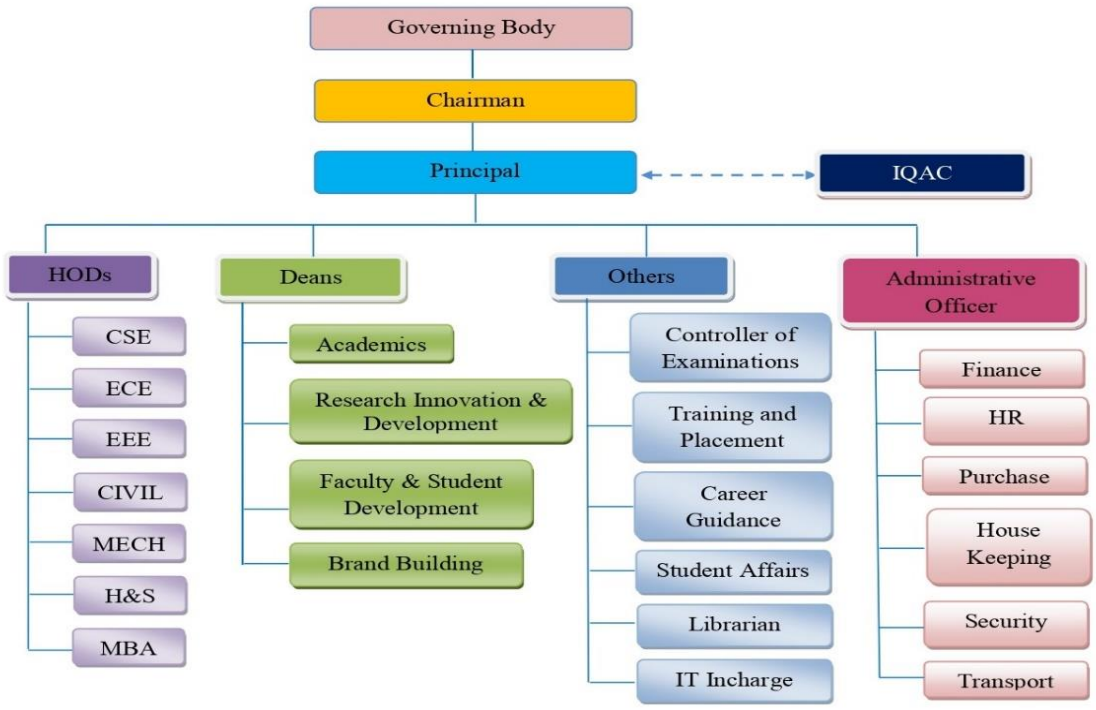
Mentoring list ,Circular, Allocation , Action taken report, mentoring sheets , Parent teacher Interaction, research papers, Industry oriented project if any, Poster presentation if any, Remedial classes, Professional bodies ,Lab manual and presentation of experiments sample, Value added programmes, co curricular and extracurricular activities, NSS participation. Assignment Evaluation sheet, Students improved from mentoring, placement, higher study, entrepreneur,

10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)
10.1 Organization, Governance and Transparency
10.1.1 State the Vision and Mission of the Institute

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.
Mission:
• To offer undergraduate and post-graduate programs that are supported through industry relevant curriculum and innovative teaching and learning processes that would help students build knowledge and skills for 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.

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

The organizational structure for the smooth functioning of college along with the hierarchy is illustrated in the following flowchart:



Governing Body:

The Governing Body of the institution carries responsibility for ensuring effective management of the institution and for planning its future development. The Governing Body looks after the affairs of the institution and demonstrates the primary objectives of teaching and research. It includes considering and approving the strategic plan for the institution, setting of the academic aims and objectives of the institution, and identifying the financial, physical and staffing strategies. The member of the body is dedicated eminent personalities such as educationists, philanthropists and industrialists etc. The Board of the Governors meets once in the year and takes policy decisions on financial, academic, and administrative matters for development of the institution. They render advice for starting new academic programs etc. The decisions of Board of Governing Body are to be implemented by the concerned Principal/ Director / Deans.

Recommendations and suggestions are forwarded by IQAC to the GB through the Principal. The institution has well experience Principal, Director – Strategy, Operations, and Human Resource Development, Director R&D, HODs, Training and Placement Officer and Administrative Officer for the implementation strategic plans given by the Governing Body.

Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Dr. Ashok Shettar	Vice Chancellor, KLE University, Hubli	Chairman
2	Ln K Krishna Reddy	Chairman, KG Reddy College of Engineering & Technology, Hyderabad	Member
3	Dr. M. Janardhan	Prof & Coordinator, BICS, Civil Dept. Jawaharlal Nehru Technological University Hyderabad	JNTUH Nominee
4	Mr. A.V Salunkhe	Asst Director & South-Central Regional Office, JNTU Masab Tank Campus, Mahaveer Marg, Hyderabad	Ex-Office AICTE Nominee
5	Dr. S. Narsing Rao	Principal, Government polytechnic College, Masab Tank, Hyderabad	CTE Nominee
6	Mr. Rajendra Prasad	Vice President, Hammond Power Solutions, Hyderabad	Member
7	Prof. Katta Narasimha Reddy	Former VC, Mahatma University Gandhi Rural	Member
8	Dr. Sudhakar Reddy	Senior Professor, MGIT, Hyderabad	Member

9	Dr. Jacob Perez	Director, The school of Leadership, Bangalore	Member
10	Mr. Sudhir Gupta	Business Strategy & Execution Specialist, Pratham Trainers	Member
11	Dr. R S Jahagirdar	Principal, K G Reddy College of Engineering & Technology, Hyderabad	Member Secretary

The college has several committees constituted by the principal and also nominates the coordinators of the various committees with their roles and responsibilities.

At department level continuation to the above, the department level committees constituted by the respective heads monitor the activities of the departments like subject allocation, lab in-charges, time tables, discipline, internal assessment, academic performance, and the teaching learning process.

Internal Quality Assurance Cell (IQAC)

The IQAC board meets once in month to review varies academic activities undertaken and monitors the progress of varies academic programs to meet the Institutions vision and mission by taking the views of stake holders into account. The board being an advisory body formulates rules and regulations for corrective actions to be taken for smooth functioning and better attainment of academic activities of the institution.

Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Dr. R. S. Jahagirdar	Principal, KGRCET	Chairman
2	Ln. K. Krishna Reddy	Chairman, KGRCET	Member, Representative from Management
3	Prof. M. N. Narsaiah	Assistant Professor, ECE, KGRCET	Coordinator
4	Ms. K. Sandhya Reddy	Industrialist, KENR Technology Hyderabad	Member
5	Dr. K. Rohit	Associate Professor, KGRCET	Member
6	Dr. Wankhade	HOD, CSE, KGRCET	Member
7	Dr. Anil N Rakhonde	HOD, ECE, KGRCET	Member
8	Prof. P. Samyuktha	HOD, EEE, KGRCET	Member
9	Mr. Mahesh Reddy	HOD, MECH, KGRCET	Member
10	Mr. K Thangamani	HOD, CIVIL, KGRCET	Member
11	Dr. Ananthaiah	HOD, H&S, KGRCET	Member
12	Dr. Sukanya Metta	HOD, MBA, KGRCET	Member
13	Dr. Dilip Kumar Sahu	Dean R&D, Professor, Dept of Mech, KGRCET	Member
14	Mr. Bavusaheb. B. K	Assistant Professor, Dept of ECE	Opted Members

15	Mrs. K. Kalpana	Assistant Professor, Dept of Mech	Opted Members
16	Mr. M. Sugunakar	Assistant Professor, Dept of EEE	Opted Members
17	Mr. Ashwini Gulhane	Assistant Professor, Dept of CSE	Opted Members
18	Mr. Kashinath Patil	Assistant Professor, Dept of CIVIL	Opted Members
19	Mr. G. Narsimulu	Assistant Professor, Dept of H&S	Opted Members
20	Mrs. Sameera Afroze	Assistant Professor, Dept of MBA	Opted Members
21	Mr. B. Ravi Kiran	Office Superintendent, KGRCET	Member, Administration
22	Mr. D. Vinay	Alumni	Member, Representative from Alumni
23	Ms. G. Rashmitha	President, Student Council, KGRCET	Member, Representative from Student Council
24	Mr. MD. Afridh	General Secretary, Student Council	Member, Representative from Student Council
25	Ms. Nikitha	Technical club Secretary, Student Council	Member, Representative from Student Council

Program Assessment Committee (PAC):
Preparation and submission of periodic reports on program activities, progress and status to management and key stake holders. PAC shall meet at least twice in semester to review the program and submits report to the development advisory board.

Responsibilities:

- Monitoring the achievements of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs).
- Evaluating program effectiveness and proposing necessary changes.
- Preparing periodic reports on program activities, progress, status or other special reports for IQAC.
- Motivating the faculty and students towards attending workshops, developing projects, working
- models, paper publications and engaging in research activities.
- Interacting with students facilitating the achievement of POs, PSOs and PEOs.
- Interacting with stake holders regarding the improvement of POs, PSOs and PEOs.
- Identifying the GAPs in COs, POs, PSOs and PEOs and action taken to fill the GAPs.
- Identifying the Slow learners and fast learners and mechanism to encourage the both.

Department of Electronics & Communication Engineering Committee Members:

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1.	Dr Anil N Rakhonde	HOD	Chairman
2.	Mr. A. Vijay Bhasker Reddy	Assistant professor	Coordinator
3.	Mr. Rohit Kandakatla	Associate professor	Member
4.	Dr. B Vandana	Associate professor	Member (IV-Module Coordinator)
5.	Mrs. Pagadala Usha	Assistant professor	Member (III-Module Coordinator)
6.	Mrs. Gayatri Tangirala	Assistant professor	Member (II-Module Coordinator)
7.	Md. Asif	Assistant professor	Member (I-Module Coordinator)
8.	Mr. M. N. Narsaiah	Assistant professor	Member
9.	Mr. Angotu Saida	Assistant professor	Member

Department Advisory Board (DAB)

DAB is the Internal Committee of the Department with all the department members and actively participate in the meeting for giving the suggestions to develop the department

Responsibilities:

- Develop and recommend the vision and mission statement of the department & provide guidelines for formulation of program educational objectives (PEOs) and program out comes (POs).
- Receive the reports of the program assessment Committee and monitor the progress of the program.
- Look after the current and future issues to program.
- Meet at least once in a semester to review the program.

Department of Electronics & Communication Engineering Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1.	Dr. Anil N Rakhonde	HOD	Chairman
2.	Mrs. Pagadala Usha	Assistant professor	Coordinator
3.	Dr. B Vandana	Associate professor	Member
4.	Dr. Rohit Kandakatla	Associate professor	Member
5.	Mr. M. N. Narsaiah	Assistant professor	Member
6.	Mrs. Gayatri Tangirala	Assistant professor	Member
7.	Mr. N S Shaker Babu	Industrial list	Member from industry
8.	Ms. K. Sandhya Reddy	Industrial list	Member from industry
9.	Dr. Md. Sallauddin	Professor	Member from academician
10.	G. Venu	Business	Member from parents
11.	G. Krishna	Alumni & Entrepreneur	Member from alumni & entrepreneur
12.	G. Rashmitha	IV-year student	Member from student council

Defined rules, Procedures, Recruitment, and Promotional policies:

In continuation to the above, the department level committees constituted by the respective heads monitor the activities of the departments like subject allocation, lab in- charges, time tables, discipline, internal assessment, academic performance, and the teaching process.

The rules and policies are well documented and brought in the form of a booklet. The booklet is distributed among the staff and each employee is educated on rules and policies etc., at the time of appointment. A few copies of the documents are also kept in the library and also on college website.

The staff recruitment at each level is through advertisement in National Newspapers as well as keeping the same on the website. The selection committee consists of the affiliating University Nominee as the Chairman, Subject experts drawn from the University, and concerned Head of the Department of the college and principal/Dean and Directors. In promoting the staff members from one cadre to other, affiliating University and AICTE norms are followed.

List of the published rules, policies and procedures, year of publications, awareness among the employees/students are made available in the library and also on college website.

10.1.3 Decentralization in working and grievance redressal mechanism

The institution believes in the culture of decentralized governance and transparent mechanism in management, administration, financial and academic affairs by involving the Principal, HODs, Leads, Coordinators and senior faculty members. The institution believes in delegating appropriate responsibilities to all the administrative committee members and allows the top management to focus on policy making and major decisions.

Decentralization is ensured through the approvals provided by the Governing Body to the Perspective Plan and the Budget. Once the approvals are given, the Heads of the Department are free to take all decisions related to governance, academics, evaluation etc. various committees are set up with the faculty as conveners and student representatives, who take decisions on a variety of issues through committees.

The HODs have the authority in deciding the academic delegating the responsibilities to the staff members of the departments. HODs are empowered to plan and execute the activities as per the academic plan and ensures its timely implementation for achieving the institutional growth.

The IQAC plays a pivotal role in quality assurance, sustenance and enhancement through visioning and deployment besides review for achieving quality assurance. The activities pertaining to the institution in respect of teaching & learning, research and development, industry interface and student activities are reviewed by the IQAC and the reports will be sent to Governing Body for approval.

Any grievance in academic activities could be represented to the Grievances and Redressal Committee. The principal discusses the directions of the Governing Council with the HODs and IQAC to evolve a consensus on the focus areas of teaching learning process, research and development, administration, and financial sanctions.

The college promotes the culture of participative management which enables staff and students to voice their opinions and suggestions which are considered for improvement. All academic and

administrative activities are decentralized and decisions are taken based on discussions and deliberations at various levels of staff meetings between Principal, HODs and stakeholders for achieving consensus.

The Grievance Redressal Committee:

This cell is established to solve the grievances raised by the faculty or students from time to time. All the grievances of the students/staff which could not be settled in the routine process are referred to this committee. Committee tries to settle the issues amicably in a time bound manner. Introduces a reasonable and reliable solution for grievances of various issues received from students/parents/staff. It ensures that all the grievances are resolved on time, impartially and confidentially.

The objective of the Grievance Cell is to develop a responsive and accountable attitude among all the stakeholders in order to maintain a harmonious educational atmosphere in the institute.

Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Mr. M N Narasaiah	Assistant Professor, IQAC Coordinator-ECE	Convener
2	Dr. Anil N Rakhonde	Professor & HOD-ECE	Convener
3	Dr. H S Wankhede	Associate Professor (HOD)-CSE	Member
4	Dr. Ramesh Babu	Associate Professor-CIVIL	Member
5	Mrs. Samyuktha	Associate Professor & HOD-EEE	Member
6	Dr T V VPavan Kumar	Professor & Head of the Exam Branch-EEE	Member
6	Mrs. Vani Reddy	OFFICE	Member
7	Mr. B Rahul	Student -IV CE	Student Member
8	Ms. Nikitha	Student -IV ECE	Student Member
9	Mr. Surya Teja	Student -III ME	Student Member
10	Mr. MdAfreed	Student -IV EEE	Student Member

Anti-Ragging Committee

Anti-Ragging Committee will be the supervisory and advisory committee in preserving a Culture of Ragging Free Environment in the college Campus.

Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Dr R S Jahagirdar	Principal, KGRCET	Chairman
2	Mr. M N Narasaiah	Assistant Professor, ECE, KGRCET	Convener
3	Dr. Rohit K	Associate Professor, KGRCET	Member

4	Dr. N Srinivas Reddy	NGO Represent	Member
5	Mr. K Thangamani	HOD – CE	Member
6	Mrs. Samyuktha	HOD – EEE	Member
7	Mr. Mahesh Reddy	HOD – ME	Member
8	Dr. Anil N. Rakhonde	HOD – ECE	Member
9	Dr. H S Wankhede	HOD – CSE	Member
10	Dr. M Swaroopa	HOD – H&S	Member
11	Inspector of Police, Moinabad	Police Department	Member
12	Ms. Niharika	IV ECE	Student Member
13	Mr. Sai Charan	III ECE	Student Member
14	Mr. Shashank	IV CSE	Student Member
15	Mr. S Hanish	II CSE	Student Member
16	Mr. M Thulasi Kumar	IV CIVIL	Student Member
17	Ms. G Gayatri	IV ECE	Student Member
18	Mr. T Shravan Kumar	II CIVIL	Student Member
19	Mr. M Ganesh	IV ME	Student Member
20	Mr. Mahesh Kumar	IV EEE	Student Member
21	Ms. Swathi	II EEE	Student Member
22	Ms. Sai Nikhitha	III CSE	Student Member
23	Ms. P Bhavana	II ECE	Student Member
24	Mr. P Sumanth	I Year	Student Member
25	Ms. G Sowmya	I Year	Student Member
26	Mr. G Sridhar	I Year	Parent Member
27	Mr. L Malla Reddy	I Year	Parent Member

Meetings:

Academic Year	Date of Meeting	No. of Members Attended
2019-2020	23/08/2019	11
2018-2019	16/05/2019	06
	05/08/2019	06
	23/08/2019	11
2017-2018	21/05/2018	14
	10/07/2018	14
	14/08/2018	13

Prevention of Sexual Harassment Committee

Sexual Harassment at workplace is a violation of women's right to gender equality, life and liberty. It creates an insecure and hostile work environment, which discourages women's participation in work, thereby adversely affecting their economic empowerment and the goal of inclusive growth.

KGRCET is committed to upholding the Constitutional mandate to combat sexual harassment of women and ensure that human rights of all those who fall within its jurisdiction are safeguarded.

Committee Members:

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Mrs. T Gayatri	Assoc. Professor – ECE	Convener
2	Dr. Anil N Rakhonde	HOD-ECE	Member
3	Dr. H S Wankhede	HOD – CSE	Member
4	Dr. Madhulitha	Assoc. Professor-H&S	Member
5	Mrs. Jaya Bharathi	Asst. Professor-CSE	Member
6	Mrs. Samyuktha	HOD-EEE	Member
7	Mrs. Vani Reddy	Admin OFFICE	Member
8	Ms. Ganga Jamuna	IV CSE	Student Member
9	Ms. G Gayatri	IV ECE	Student Member
10	Ms. C Ashwini	III EEE	Student Member
11	Ms. D Rohitha	IV CE	Student Member
12	Mr. Ravi Teja	II CSE	Student Member
13	Mr. Sai Charan	III ECE	Student Member

Meetings:

Academic Year	Date of Meeting	No. of Members Attended
2019-2020	12/02/2020	07
2018-2019	09/01/2019	10
	24/04/2019	10
	22/07/2019	08
	14/09/2019	08
	21/12/2019	07
2017-2018	31/07/2018	12
	26/09/2018	09

Disciplinary Committee:

Creating safe and motivating environment in our institution and to bring professionalism among students by inculcating best practices.

Committee Members

Sl. No.	Name of the Member	Designation of the Member	Position of the Member
1	Dr. R S Jahagirdar	Principal, KGRCET	Chairman
2	Mr. M N Narasaiah	Assistant Professor-ECE	Convener
3	Dr. Anil N Rakhonde	Professor-ECE	Member
4	Dr. H S Wankhede	HOD-CSE	Member
5	Prof. K Thangamani	HOD-Civil	Member
6	Prof. Samyuktha	HOD-EEE	Member
7	Mrs. Vani Reddy	OFFICE	Member
8	Ms. G Rashmitha	IV ECE	Student Member

9	Mr. B Rahul	IV CE	Student Member
10	Md. Afrith	IV EEE	Student Member
11	Mr. Krishna	IV CSE	Student Member

Meetings:

Academic Year	Date of Meeting	No. of Members Attended
2019-2020	20/02/2020	07
2018-2019	20/03/2019	07
	15/07/2019	11
	13/08/2019	10
	19/09/2019	11
2017-2018	23/07/2018	09
	31/10/2018	08

Meetings:

Academic Year	Date of Meeting	No. of Members Attended
2019-2020	18/09/2019	07
2018-2019	06/02/2019	06
	09/08/2019	09
	19/09/2019	07
2017-2018	27/07/2018	08
	02/08/2018	08
	13/08/2018	08
	12/09/2018	08
	05/12/2018	08

Women Cell

The Women Cell is constituted to help maintain a harmonious atmosphere at the Institute, to enable women to pursue their work with dignity and reassurance. The Cell has been working to raise awareness on gender equality issues.

Committee Members

Sl. No.	Name of the Member	Position of the Member	Designation of the Member
1	Ms. T Gayatri	Convener	ECE
2	Ms. Sakshi Machelwar	Member	CE
3	Ms. Shravani	Member	ME
4	Ms. Samyuktha	Member	EEE
5	Dr. B Vandana	Member	ECE
6	Ms. Poonam ganesh swami	Member	ECE

7	Ms. BN Jyothi	Member	CSE
8	Ms. Shelly sinha	Member	CSE
9	Ms. Chandana	Member	Administrative Office
10	Ms. Sujatha	Member	H&S
11	Ms. Ashwini	Student member	CE
12	Ms. Swathi	Student member	EEE
13	Ms. Lahari	Student member	ECE
14	Ms. Taibitha	Student member	ECE
15	Ms. Meghana	Student member	CSE
16	Ms. Vineela	Student member	CSE

Meetings:

Academic Year	Date of Meeting	No. of Members Attended
2019-2020	03/01/2020	05
2018-2019	05/03/2019	08
	31/08/2019	10
	08/11/2019	04
	03/12/2019	06
2017-2018	22/01/2018	05
	06/03/2018	05
	30/05/2018	07
	30/07/2018	08
	18/09/2018	07

10.1.4 Delegation of financial powers

- To ensure smooth function of the academic and administrative operations in the institution, the governing body resolved to delegate financial powers to the leadership team at KGRCET.
- Principal of the institution is given financial power of up to Rs. 25,000/- per month.
- The same is extended to the HODs up to a limit of Rs. 10,000/- per month.

10.1.5 Transparency and availability of correct/unambiguous information in public domain

- Dissemination and availability of institute program specific information is made available on the website.
- Information provisioning in accordance with Right to Information ACT, 2005, constituted a committee headed by the Principal & Director the committee detail is available on the website.

Transparency in administration

- The file movement system is in operation which makes involvement of functionaries in decision making.

- The decision of Governing body and as well as of academic bodies are circulated to the staff through proper channel. All heads of the department keep the staff informed about the administrative / academic decisions taken.

- The "College Management System (CMS)" online application software is in utilization by the teaching staff for maintaining student's academic information and the same is communicated.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level

10.2.1. Adequacy of budget allocation

Sl. No.	Assessment Year	Budget Allocated In (Rs.)	Actual Expenditure In (Rs.)	Adequate / Non Adequate
1	CFY-19-20	9,40,40,217	9,57,17,611	Non Adequate
2	CFYm1- 18-19	9,13,16,397	9,93,52,097	Non Adequate
3	CFYm2- 17-18	7,97,29,799	9,32,49,562	Non Adequate
4	CFYm3-16-17	6,77,97,600	7,30,94,198	Non Adequate

10.2.2 Utilization of allocated funds

Sl. No.	Assessment Year	Budget Allocated In (Rs.)	Actual Expenditure In (Rs.)	Percentage of Utilization
1	CFY-19-20	9,40,40,217	9,57,17,611	101.78
2	CFYm1-18-19	9,13,16,397	9,93,52,097	108.80
3	CFYm2-17-18	7,97,29,799	9,32,49,562	116.96
4	CFYm3-16-17	6,77,97,600	7,30,94,198	107.81

10.2.3 Availability of the audited statements on the institute's website

Yes, The Institution caries out internal and external audit process and the audited statements are available on the institution website.

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

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3

: (Current Financial Year minus 3)
Table 1 - CFY 2019-20

Total Income 104230737				Actual expenditure (till…): 95717611			Total No. Of Students 1019
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
92131001	0	0	12099736	93106163	2611448	0	93933

Table 2 - CFYm1 2018-19

Total Income 91373228				Actual expenditure (till…): 99352097			Total No. Of Students 1294
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Any other, specify	Expenditure per student
76255600	0	0	15117628	91866683	7485414	0	76779

Table 3 - CFYm2 2017-18

Total Income 79095501				Actual expenditure (till…): 93249562			Total No. Of Students 1263
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
69010100	0	0	10085401	86971377	6278185	0	73832

Table 4 - CFYm3 2016-17

Total Income 67054307				Actual expenditure (till…): 73094198			Total No. Of Students 1290
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
57664940	0	0	9389367	65564246	7529952	0	56662

Items	Budgeted in 2019-20	Actual Expensesin 2019-20 till	Budgetedin 2018-19	Actual Expensesin 2018-19 till	Budgetedin 2017-18	Actual Expensesin 2017-18 till	Budgetedin 2016-17	Actual Expenses in 2016-17 till
Infrastructure Built-Up	7,00,000	11,48,060	56,33,048	54,63,479	33,88,200	42,78,352	43,21,900	56,08,179
Library	1,65,000	97,395	2,10,220	2,05,305	2,96,050	3,73,408	3,04,000	3,18,096
Laboratory equipment	4,25,000	13,65,993	18,93,950	18,16,630	14,98,060	16,26,425	16,42,500	16,03,677
Laboratory consumables	10,01,722	6,89,188	9,82,080	11,29,742	4,27,000	4,53,304	4,07,000	3,81,080
Teaching and non-teaching staffsalary	6,51,26,474	6,34,80,397	6,02,34,326	5,88,43,983	5,33,25,816	5,61,68,400	4,16,14,000	4,01,56,062
Maintenance and spares	18,74,290	17,96,059	26,43,620	34,55,840	24,44,700	29,76,849	9,59,700	13,86,408
R&D	9,56,802	5,26,305	8,64,473	9,35,756	6,56,455	6,31,455	4,98,350	5,15,026
Training and Travel	7,40,703	9,74,587	6,98,776	8,40,304	5,02,550	4,64,280	4,08,000	3,96,740
Miscellaneous Exp	29,000	0	26,500	0	25,000	0	48,500	33,601
Others, specify	2,30,21,227	2,56,39,627	1,81,29,404	2,66,61,058	1,71,65,968	2,62,77,089	1,75,93,650	2,26,95,329
Total	**9,40,40,218**	**9,57,17,611**	**9,13,16,397**	**9,93,52,097**	**7,97,29,799**	**9,32,49,562**	**6,77,97,600**	**7,30,94,198**

10.3 Program Specific Budget Allocation, Utilization

10.3.1 Adequacy of budget allocation

Sl. No.	Assessment Year	Budget Allocated In (RS.)	Actual Expenditure In (RS.)	Adequate / Non Adequate
1	2019-20	1,60,82,080	1,59,356,88	Adequate
2	2018-19	1,52,16,638	1,53,30,136	Non Adequate
3	2017-18	1,28,43,878	1,24,77,636	Adequate
4	2016-17	1,18,93,500	1,14,39,777	Adequate

Total budget allocation and utilization at program level: For CFY, CFYm1, CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and CFYm3: (Current Financial Year minus 3)

Table 1: CFY 2019-20

16082080		Actual expenditure (till…): 15935688		Total No. Of Students 261
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
215000	15867080	169540	15766148	61056

Table 2: CFYm1 2018-19

15216638		Actual expenditure (till…): 15330136		Total No. Of Students 285
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
443820	14772818	419207	14910929	53790

Table 3: CFYm2 2017-18

12843878		Actual expenditure (till…): 12477636		Total No. Of Students 223
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
478750	12365128	485112	11992524	55954

Table 4 :: CFYm3 2016-17

11893500		Actual expenditure (till…): 11439777		Total No. Of Students 234
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
795000	11098500	678872	10760905	48888

Items	**Budgeted in 2019-20**	**Actual Expenses in 2019-20 till**	**Budgeted in 2018-19**	**Actual Expenses in 2018-19 till**	**Budgeted in 2017-18**	**Actual Expenses in 2017-18 till**	**Budgetedin 2016-17**	**Actual Expensesin 2016-17 till**
Laboratory equipment	180000	144540	390400	370365	251800	239548	425000	389100
Software	105820	165425	101750	92094	67408	63797	183500	178164
Laboratory consumable	202516	147566	198545	196778	98000	91883	95000	89420
Maintenance and spares	125000	115650	275000	255750	170000	165461	98000	128783
R & D	354017	322992	319855	355587	242888	246267	199340	185409
Training and Travel	219208	275561	206800	219746	120000	111780	130000	120029
Miscellaneous Exp	6000	0	6000	0	3000	0	5000	4577
Total	**1192561**	**1171734**	**1498350**	**1490320**	**953096**	**918736**	**1135840**	**1095482**

10.3.2 Utilization of allocated funds

Sl. No.	Assessment Year	Budget Allocated In (RS.)	Actual Expenditure In (RS.)	Percentage of Utilization
1	2019-20	1,60,82,080	1,59,35,688	99.09
2	2018-19	1,52,16,638	1,53,30,136	100.75
3	2017-18	1,28,43,878	1,24,77,636	97.15
4	2016-17	1,18,93,500	1,14,39,777	96.19

10.4. Library and Internet

10.4.1 Quality of learning resources (hard/soft)

The college library complex with an area of 7480.7 sft. (Ground and first floor). The ground floor accommodates Stack Area, Book Circulation Section, Newspapers, Magazines and Reprography / Photocopy. The first- floor hosts Back volumes, Project reports, P.G. books, Digital Library and books for competitive examinations etc.

The library equipped with modern infrastructure, with a reading capacity for 120 users. A total collection of 22,791 volumes, 120 + Print Journals & Magazines, 5000+ Full-text E-Journals & 4350 E-books.

The central library was automated by the NEWGEN LIB 3.1 version software in 2014 for smooth functioning of library activities. The software consists of various modules on acquisition, cataloging, circulation, serials control, and Online Public Access to Cataloguing (OPAC).

The NEWGENLIB software was upgraded to 3.1.2 version software in 2015. This new version enables the librarian to issue, renewal of books, maintain the database of books, journals, periodicals and to maintain the data of students and faculty who utilize the library resources.

The NEWGENLIB software was upgraded to 3.1.3 version software in 2017. Salient features of NEWGENLIB 3.1.3:

- Functional modules are completely web based. Uses Java Web Start™ Technology.
- Compatibility - Complies with international metadata and interoperability standards: MARC-21, MARC-XML, z39.50, SRU/W, OAI-PMH
- Uses chiefly open-source components
- Scalable, manageable and efficient
- OS independent - Windows and Linux flavors available
- z39.50 Client for federated searching
- Internationalized application (I18N)
- Unicode 4.0 complaint
- Easily extensible to support other languages
- Data entry, storage, retrieval in any (Unicode 3.0) language
- RFID integration
- Networking – Hierarchical and Distributed networks
- Automated email/instant messaging integrated into different functions of the software
- Form letters are configurable and use XML-based OpenOffice templates
- Extensive use of set up parameters enabling easy configuration of the software to suit specific needs, e.g., in defining patron privileges
- Supports multi-user and multiple security levels
- Allows digital attachments to metadata

Faculty and students are able to access the below services in the library:

- DELNET, NDL (National Digital Library)
- OPAC (Online Public Access to Cataloguing for Book Search) Service
- E-Book Services
- E-Journal Services
- Quick Mail Service

- Book Bank Service
- SWAYAM (online course)
- NPTEL – Learning Resources Service Centre
- Current Contents Service/journals
- Current Awareness Services/newspaper
- Previous Question Papers Access
- Reports of best projects carried out by students.
- Reference Service Reprographic Service (Xerox and Printing)

In addition, there are free online resources like "www.indianmanuscripts.com" and www.rarebooksocietyofindia.org, where in students can easily access Indian ancient manuscripts, rare and special books. The link of same is given in college website also.

Relevance of available learning resources including e-resources

The library of KGRCET is equipped with the required reference and prescribed text books as per the approval and affiliating authorities. Apart from the books as per the curriculum requirement, other relevant books are provided for additional reference and to carryout project work in the respective programs.

Magazines and journals of technical relevance are available in the library. The learning resources which are made available program wise in the library meet the curriculum requirement. Downloaded E-books, videos from (National Program on Technology Enhanced Learning (NPTEL), MHRD, GOI for all the programs are maintained in the database and added to the library e-resources. Several e-journals, e-textbooks and online library resources have been subscribed for institutional use.

Accessibility to students

Every student is issued a library card on enrolment into any program of KGRCET. Students are permitted to enter library by showing the library card and access any book including reference. Students can borrow the books for a period of two weeks to take outside the library. The default limit of number of books that can be taken outside is three and can be increased on the request from the student and recommendation by the respective faculty. All the students are given e-access to the NPTEL lectures, e-journals through digital library.

Higher Studies: To motivate the students to prepare for the GATE, GRE and TOFEL/IELTS, all necessary reference publications and resource material are placed separately in the library.

Support to students for Self-learning activities

As the current engineering demands all-round development, students have difficulty in managing both regular academics and other technical activities. in advance to ensure maximum self-learning at their own pace. Faculty at KGRCET follow various innovative pedagogies which significantly promote self-learning. All the faculty post their lesson plans and e-learning resources on the college CMS (College Management System). Learning resources in terms of lecture notes, presentations, videos and other information is shared with students through course website(canvas) for their access.

10.4.2 Internet

Name of the Internet provider	GTPL Broadband PVT Ltd
Available band width	100 MBPS
WiFi availability	YES
Internet access in labs, classrooms, library and offices of all Departments	Available
Security arrangements	Available

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

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

Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

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.

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.

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

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.

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.

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

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

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.

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.

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 OUTCOME (PSOs)

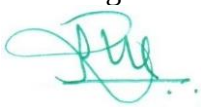
PSO1	Problem Solving Skills – Graduates will be able to apply their knowledge in emerging electronics and communication engineering techniques to design solutions and solve complex engineering problems.
PSO2	Professional Skills – Graduate will be able to think critically, communicate effectively, and collaborate in teams through participation in co and extra-curricular activities.
PSO3	Successful Career – Graduates will possess a solid foundation in Electronics and Communications engineering that will enable them to grow in their profession and pursue lifelong learning through post- graduation and professional development
PSO4	Society Impact – Graduate will be able to work with the community and collaborate to develop technological solutions that would promote sustainable development in the society.

Declaration

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

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

Head of the Institute Name : Dr. R S Jahagirdar Designation : Principal Signature :



Seal of The Institution :

Place : Moinabad
Date : 29-06-2020 16:28:25