

G. Pullaiah College of Engineering and Technology, Kurnool

(Autonomous)

Internal Academic Audit

Academic Year: 2020-21

Part – A: General Information

1. Name of the department: **Civil Engineering**

2. Year of establishment: **2011**

3. Programmes offered:

3.1 UG Programmes: **B.Tech - CE**

3.2 PG Programmes: -

4. Accreditation Status: **No**

5. Details of the Faculty:

S. No	Faculty Name	PAN No.	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/Associate professor	Currently Associated (Y/N)	Nature of Association (Regular/Contract/Adjunct)	If contractual mention Full time or Part time	Date of Leaving (In case of currently associated is NO)
1.	S Vinay Babu	BJEP S8657 R	ME/M. Tech and PhD	Structural Engineering	Professor	11/01/2016	11/01/2016	Y	Regular	-	-
2.	G V Nagalingeswar Rao	ADFP N199 1B	ME/M. Tech and PhD	Structural Engineering	Professor	05/01/2018	05/01/2018	Y	Regular	-	-
3.	Syed Afzal Basha	AFM PB21 23C	M.E/M .Tech	Structural Engineering	Professor	29/04/2013	29/04/2013	Y	Regular	-	-
4.	J Usharee	AA Y PU45 00H	M.E/M .Tech	Structural Engineering	Associate Professor	12/12/2014	12/12/2014	Y	Regular	-	-
5.	S Akhil Tej	BCSP A762 2R	M.E/M .Tech	Structural Engineering	Assistant Professor	12/08/2014		Y	Regular	-	-

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6.	K Anand	DCVP K963 4J	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	14/07/ 2016		Y	Regular	-	-
7.	C Thejaswin i Veena	BEQP C3268 D	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	06/11/ 2015		Y	Regular	-	-
8.	C G Mohan Babu	BCDP C1032 N	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	01/02/ 2017		Y	Regular	-	-
9.	A Vinod Kumar	BPIP V035 3R	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	19/12/ 2019		Y	Regular	-	-
10.	S Bramaram bika	FMG PS597 1B	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	17/07/ 2018		Y	Regular	-	-
11.	C Bala Hussainy	BDRP H759 8P	M.E/M .Tech	Geotechn ical Engineeri ng	Assista nt Profess or	06/07/ 2020		Y	Regular	-	-
12.	N Kalyani	GHIP K523 4B	M.E/M .Tech	Geo- Informati cs	Assista nt Profess or	15/06/ 2020		Y	Regular	-	-
13.	S Venkata Mahesh	CBPP M292 3J	M.E/M .Tech	Structu ral Engine ering	Assista nt Profess or	09/12/ 2017		N	Regular	-	09/06/20 20
14.	K Mallikarju na Reddy	EGEP K802 6A	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	30/05/ 2017		N	Regular	-	27/05/20 20
15.	Y Sivananda Reddy	ALTP Y5519 N	M.E/M .Tech	Structural Engineeri ng	Assista nt Profess or	02/07/ 2019		N	Regular	-	24/06/20 20

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6. Details of non-teaching staff:

S.No	Name	Qualification	Designation
1.	P. Suresh Babu	ITI (Civil)	Technician
2.	M. Raghavendra	ITI (Civil)	Technician

7. Admission Status:

a. No. of students admitted:

Programme	Academic year 2020-21	
	Sanctioned	Admitted
UG (Specialization)	60	57

8. Budget Allocation and Utilization during the year:

Academic Year	Total Budget Allocated		Total Budget Utilized		Remarks
	Non-Recurring	Recurring	Non-Recurring	Recurring	
2020-21	-	15000	-	14900	The College has been conducting online class mostly during 2020-21 as covid out break had been prominent as a result less amount of expenditure has been incurred

9. Physical Resources Available:

- Number of classrooms: **03**
- Number of faculty rooms: **01 room with necessary cubicles**
- Number of staff rooms: **01 room with necessary cubicles**
- Laboratories:

S.No	Name of the Laboratory	Equipment	Quantity	Cost
1.	Concrete and highway materials lab	Length gauge	3	810542.30
		Los angles	1	
		Universal Penetro-meter	2	
		Bitumen Penetro meter	2	
		Thermometer 150 C	2	
		Thermometer 160 C	2	
		Mould steel cubes	9	
		Tampering rod	2	
		Beam Mould	6	
		Vibration table	1	
		Lab concrete mixture	1	
		Mould Cast iron	2	
Sieve brass frame	2			

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		Density Basket	2	
		Crushing value aggregate	1	
		Aggregate impact test with blow counter	1	
		Pycnometer	3	
		Ring & Ball apparatus Electrical Heating	1	
		Le-Chartlier Mould	3	
		Lchartlier Flask	3	
		Slump test apparatus	1	
		Compaction factor	1	
		Set of Sieves	2	
2.	Engineering geology lab	Hardness Collection: Set of 9 minerals	1	
		Lustre Collection : Set of 10 minerals	1	
		Cleavage collection :Set of 10 minerals	1	
		Fracture Collection : Set of 6 minerals	1	
		Tenacity collection : Set of 4 minerals	1	
		Specific Gravity : Set of 10 minerals	1	
		Streak collection : Set of 10 minerals	1	
		Plastic Specimen Trays	40	
		Streak Plates	10	
		Pocket Lens	10	94233.00
		Pen knife	10	
		Mineral Specimens	35	
		Structural Geology Models	6	
		Odour Collection : Set of 10 minerals	1	
		Feel Collection : Set of 10 minerals	1	
		Magnetism and Electricity Collection Set of 10 minerals	1	
		Transparency	1	
		Habit Collection	1	
		Form and Structure	1	
3.	Geotechnical engineering laboratory	Shrinkage Limit Set	1	
		Core Cutter Set	1	
		Sand pouring Cylinder Set	1	
		Hydrometer Analysis Apparatus	1	
		Permeability Apparatus Set	1	330196.00
		CBR Apparatus Motorized	1	
		Direct Shear Test Apparatus Motorized	1	
		Lab Vane Shear Apparatus Motorized	1	
		Liquid Limit Set	1	
		Plastic Limit Set	1	
		Sieves	1	


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		Sieve Shaker Motorized	1	
		IS Light Compaction Test Apparatus	1	
		IS Heavy Compaction Test Apparatus	1	
		Moisture Cans	1	
		Crowbar ,Dibber & Metal Tray	1	
		GI Trays	1	
		Pycnometer (2)	1	
		SD Laboratory Oven	1	
		Weighing Balance	1	
4.	Fluid mechanics and hydraulic machinery laboratory	Impact of jet on vanes	1	443091.00
		Performance test on pelton wheel	1	
		Performance test on single stage centrifugal pump	1	
		Performance test on multistage centrifugal pump	1	
		Performance test on reciprocating pump	1	
		Calibration of venturimeter & orificemeter	1	
		Determination of friction factor for a given pipe line	1	
		Determination of loss of head due to sudden contraction in the pipeline and turbine flow meter	1	
		Orifice & mouth piece tank	1	
		Notch tank apparatus	1	
		Bernoullis theorem apparatus	1	
		Stopwatches (3)	3	
5.	Strength of materials laboratory	Universal Testing Machine	1	1819981.86
		Hardness Testing Machine	1	
		Impact Testing Machine	1	
		Hand operated Spring Testing Machine	1	
		Torsion Testing Machine	1	
		Electronic Extensometer	1	
		Interface Hardware PCB	1	
		Extensometer Software SWO2	1	
		Platform Weighing Balance Weights Slotted	1	
6.	Surveying laboratory	Total station	1	427100.00
		Measuring Chain 30 mtr	1	
		Ranging Rod 3 mtr Folding	1	
		Cross Staff Wooden Head with Ms Rod	1	
		Prismatic Compass 100mm dia with		

427100.00

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		Stand		
		Plane table set with Aluminium Stand	1	
		Levelling Staves 4 Mtr 3 Folds	1	
		Dumpy level 9" with Stand	1	
		Planimeter	1	
		M Tape Freeman's Make Plastic 30mtr	1	
		Arrows	1	
		Dial Gauge 0.01mm×25mm	1	
		Dial Gauge 0.01mm×25mm	1	
		Magnetic Stand	1	
7.	Environmental engineering laboratory	PH METER	1	175430.00
		TURBIDITY METER	1	
		CONDUCTIVITY METER	1	
		HOT AIR OVEN	1	
		MUFFLE FURNACE	1	
		DISSOLVED OXYGEN METER	1	
		JAR TEST APPARATUS	1	
		BOD INCUBATOR	1	
		WEIGHING BALANCE 30 KG	1	

- f. Department Library:
Number of Titles: 350

Part - B

1. Curriculum:

- Is the Curriculum updated (Yes / No) : **Yes**
- If 'Yes', mention the changes made in detail and the reasons for the same:
The Curriculum has been modified regularly from R-19 to R-20 in order to ensure that the students gain good hands on experience as on latest technical trends. Internships have been made mandatory for all the students during their II and III Years which indeed helps them to know about latest industry requirements
- Are the changes made in tune with the feedback of the employers/ industrial experts / academicians / parents / alumni? (Provide the surveys as an attachment): Yes

2. Teaching and Learning Process:

- Student to Teacher Ratio (STR):

	Academic year 2020-21
Sanctioned intake in First Year (UG) N1	60

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Sanctioned intake (Lateral entry) (UG) N2	6
Sanctioned intake (PG1) N3	-
Total number of students [(N1+N2) X 3] + [(N3x2)]	198
Total number of faculty	12
STR	16.50

- b. Percentage of faculty using ICT for effective teaching and learning mechanism:

No. of faculty on roll	Number of faculty using ICT tools	Available ICT tools and resources	Number of ICT enabled rooms	e-resources and techniques used
12	12	NPTEL videos Virtual Labs	1	NPTEL videos e-journals (J-Gate, Delnet, Taylor & Francis) Flipped class rooms

- c. Students academic performance (outgoing batch result analysis):

Number of students appeared	Number of students passed in distinction	Number of students passed in first class	Number of students passed in second class	Number of students passed in pass class
53	28	18	02	00

- d. Innovative processes adopted in teaching-learning process:

- i. Modern teaching methodologies like ICT based learning, flipped class rooms, virtual labs are being employed to create interest among the students.
- ii. LCD projectors with necessary screens are consistently used in the classroom lecture delivery.
- iii. Internet facility is provided to students for deeper inquiry into their subjects.
- iv. The technologies are used even in the co-curricular activities during seminars, workshops etc. Every classroom is enabled with Wi-Fi connection for better learning.
- v. Priority is given to learning through hands on experience where in the students are made to perform various experiments to understand the concept better. In order to do so, the experiments are also designed in such a manner so as to be aligned with the concepts being learned in the class.
- vi. Continuous mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.

- vii. Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.
 - viii. The students are also encouraged to take up NPTEL certifications to improve their domain knowledge.
 - ix. Regular assessment tests are also conducted to analyze the learning capabilities of students.
 - x. The website has been designed in such a manner where in all the data required by the student is made available. The lecture notes along with previous years question papers are also placed in the website for the benefit of students. Video lectures of the faculty on important topics are also placed in the website so that it enables the student to have an idea about the topic before he or she comes to the class.
- e. Status of student mentoring system and action taken:
Continues mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.


Facilities being created for the above:

Research groups have been created in the departments. The various projects taken up by the students also relate to their research groups.

- f. Achievements and Recognitions of students:
- g. Details of scholarships/financial support by various organizations:
- h. Students participation in various co-curricular and extra-curricular activities (seminars, conferences, workshops, industrial tours, training sessions, sports, etc)

Training sessions are being conducted for advanced learners on certification courses like CAD & STAAD.

- i. Status of remedial classes for slow learners and GATE, etc classes for advanced learners:
Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.
GATE coaching is been given by the senior faculty in the department for advanced learners.
Advanced learners are also been given Training on Certification Courses like CAD & STAAD.
- j. Are the faculty members maintaining the course files? (course file shall consists of class time-table copy, syllabus copy along with outcomes, lesson plan, sessional and end examination question papers, assignment, quiz, sessional marks, result analysis, CO attainment, mapping of CO and PO, class notes, hard copies PPTs)
All the faculties in the department are handling course files.


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- k. Company wise details of the students placed (on-campus and off-campus) and details of the students qualified in various competitive examination (attach proofs)

SKANDANSHI-2

TCS-4

STEEL CUBES-3

CAPGEMINI-2

PEBSPENNAR-2

HARSHITHA CONSTRUCTION DEVELOPERS-1

RAMKY INFRASTRUCTURE LIMITED-1

INNOVUS TECH SOLUTIONS-1

- l. Details about the number of students undergone for summer internship/internship and certification courses:

15 students have undergone internships in the company by name AEP Pvt Ltd., Guntur.

- m. CO and PO attainment:

Performed all CO-PO attainment

- n. Whether the employers, alumni and program exit surveys are considered for the attainment calculations or not? If yes, attach proofs

Yes

- o. Whether the Student Satisfactory Survey is conducted or not? If yes, attach proofs

Yes

3. Faculty Research and Innovation:

- a. Details of the faculty information:

- b. Details of research proposals submitted/sanctioned/ on-going/ completed by the faculty members:

S.No	Name of the faculty	Title of the Project	Sponsoring Agency	Cost of the project	Year of sanctioned	Status
1.	-	-	-	-	-	-

- c. Details of in-house projects submitted/sanctioned/ on-going/ completed by the faculty members:

S.No	Name of the faculty	Title of the Project	Cost of the project	Year of sanctioned	Status

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d. Major addition to the infrastructure of the department through project funding
(List the equipments/ facilities and costs) :

e. Details of the publications in various journals during 2020-21:

S.No	Name of The Faculty	Title of The Paper	Name of The Journal/Conference
1.	Syed Afzal Basha, Dr S Vinay Babu, K Anand, A Vinod Kumar	Impact of using SAP and Stone Powder in High Strength Concrete	Journal of Ceramics and Concrete Technology
2.	K Anand, Y Sivananda Reddy, Syed Afzal Basha, S Akhil Tej	REPROCESSING OF GLASS MATERIAL IN ENHANCING CEMENT MORTAR WITH COARSE AGGREGATES	i-managers journal on civil engineering
3.	ARE VINOD KUMAR, Y Sivananda Reddy	GENERALIZED SHEAR FORCE AND BENDING DIAGRAMS VIA SINGULARITY FUNCTIONS BY USING MATLAB AND GNU OCTAVE	Journal on Computer Science
4.	SYED AFZAL BASHA	IMPACT OF USING STONE POWDER AND MINERAL ADMIXTURES IN HIGH STRENGTH CONCRETE	International Journal of Engineering Technology and Management Science

f. Details of the publications in various conferences during 2020-21:

S.No	Name of The Faculty	Title of The Paper	Name of The Journal/Conference
1.	Dr S Vinay Babu	Effect of Pond Ash on Black StoneWaste Aggregate Concrete	Springer Nature Singapore Emerging Trends in Civil Engineering, Lecture Notes in Civil Engineering
2.	Syed Afzal Basha	Effects of Using Dust and CGBS in Concrete	IJETMS.IN Issue:5, Volume No.4 September – 2020
3.	A Vinod Kumar	Quantify the damages of Buildings by using FEM Based tool INSPECT 2D	Sustainable Building Materials and Construction (ICSBMC-2021)
4.	C Bala Hussainy	Influence of Slag Based Geopolymer In The engineering Behavior of Highly Expansive Soil	Sustainable Building Materials and Construction (ICSBMC-2021)

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g. Details of the faculty who attended Workshops/STTPs/FDPs:

S.No	Name of the Faculty	Title of FDP/Workshop/STTP/Certifications/Seminar/Webinar/Training Activity with Date and Organization
1.	Dr S Vinay Babu	Completed COURSERA certification on “statistics for Artificial intelligence & machine learning” on 10th Dec 2021 in association with DR KESAVA REDDY.
		Participated in a three day online faculty development program on “Recent Advances in Structural Engineering (RASE)-2020 JNTUA” at 30/05/2020 organized by JNTU-Anatapuramu
2.	Syed Afzal Basha	Participated in a three day online faculty development program on “Recent avenues in structural engineering” at 30/05/2020 organized by JNTU-Anatapuramu
		Participated in a one week online faculty development program on “Recent avenues in Civil engineering” at 11/05/2020 organized by Narsimha Reddy Engineering College, Hyderabad
3.	C Bala Hussainy	Participated in one week FDP on “fundamentals of Geo technical and structural engineering for sustainable infrastructural development” from 13/08/2021 to 03/09/2021 in the department of CE, Government of Engineering College, Dahod.
		Participated in one week FDP on “Repairs, rehabilitation & Retrofitting Techniques of Reinforced concrete Structures ” from 26/04/2021 to 01/05/2021 in the department of CE, Srinivasa Ramanujan Institute of Technology, Ananthapuram.

h. Details of the faculty who organized Conferences/Workshops/STTPs/FDPs:

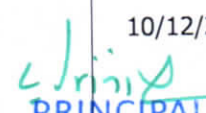
S.No.	Name of the faculty	Name of the conference	Duration	No. of participants
1	-	-	-	-

i. Details of books/book chapters authored by the faculty:

S.No	NAME	TITLE OF THE BOOK	PUBLISHER	ISBN NO.	Date of Publication
1.	-	-	-	-	-

j. Details of Patents published/awarded and product development, if any:

S.No	NAME	TITLE OF THE PATENT	PATENT NUMBER	Year of Publication
1.	Dr. S. VINAY BABU	Development, authentication and application of 3D-printed IoT-based water quality monitoring system	-	10/12/2021


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2.	Dr. S. VINAY BABU	EXPANSION OF AN IOT VALUATION SCHEME: AN INTERDISCIPLINARY CONTEXT FOR ENERGY PROFICIENT BUILDINGS IN SMART CITIES	-	10/12/2021
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- k. Details of fabricated projects, if any that leads to product development in future: Nil
- l. Details of revenue generated through consultancy: Nil
- m. Number of guest lectures delivered / acted as reviewer or editorial committee member or resource person, etc.
Dr S Vinay Babu delivered GATE lectures
- n. Number of faculty who completed certification courses:
Total Faculty are: 10

4. Other Information:

- a. Are the minutes of the meeting of the Departmental Committee maintained : YES
- b. Number of MoUs / collaborations signed with organization/institution: YES
- c. How many National/ International acclaimed experts visited the department (Date, Name of the Expert, Designation, Organization and Purpose):
- d. Details of newsletters / magazines etc published:
- e. Future plans of the department:
To train the students in getting 100% pass percentage.
To train the students in getting 100% placements.
To Conduct advanced workshops

5. SWOC Analysis:

- a. **Strengths:**
 1. Qualified, experienced and dedicated teaching faculty with good retention ratio.
 2. Laboratories with State of the Art equipment and modern software tools.
 3. Faculty contributing in design development and implementation of curriculum in Board of Studies of an Affiliating University.
 4. Effective use of ICT in teaching learning process.
 5. Student centric functioning with mentoring, counselling through teachers and Effective academic monitoring.
 6. Active NSS Unit.
 7. Professional Society Chapters in the department.

8. Safe and Secured Environment for girl students.
- b. **Weakness:**
1. Less Industry – Institute interaction.
 2. Moderate Placement ratio.
 3. Institute lacks in revenue generation.
 4. Less student pursuing higher education.
 5. Involvement of Alumni is less.
- c. **Opportunities:**
1. To arrange more number of FDPs /STTPS/ National Level /International Level conferences.
 2. To arrange specialized Training programs by the faculty.
 3. Scope for interdisciplinary and sponsored projects.
- d. **Challenges:**
1. Strengthen Industry-Department Interaction.
 2. More placements in core companies.
 3. Encouraging students for competitive examinations and higher studies.
 4. Networking and strengthening relationship with stakeholders.
 5. More focus on Industrial training for faculty and students.

6. Suggestions / Recommendations of the Committee:



Signature of EAA Member – 1

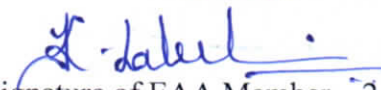
Designation: *Asst. prof*

Address: *GPCET*

Mobile Number: *8500300602*

e-mail: *Srilakshmicse@gpcet.ac.in*


Signature of the HoD with date
HOD - Dept. of Civil Engg
G. Pullaiah College of Engg. & Tech.
Nandikotkur Road- Venkayapalli (V),
KURNOOL


Signature of EAA Member – 2

Designation: *Asst. prof*

Address: *GPCET*

Mobile Number: *9705199987*

e-mail: *lakshmicse@gpcet.ac.in*


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Internal Academic Audit

Academic Year: 2020-21

Part – A: General Information

1. Name of the department : **Electrical& Electronics Engineering**
2. Year of establishment : 2007
3. Programmes offered:
 - 3.1 UG Programmes : B.Tech-EEE
 - 3.2 PG Programmes : M.Tech-EPS
4. Accreditation Status : Accredited by NBA
5. Details of the Faculty:

S.No.	Name	Qualification	Designation	Area of Specialization	Experience
1	Dr. C Srinivasa Rao	Ph.D	Professor	Electrical Power Systems	16
2	Dr. M Rama Prasad Reddy	Ph.D	Professor & HoD	Power Electronic and Drives	20
3	Dr.G. PanduRanga Reddy	Ph.D	Assoc.Prof.	Control Systems	15
4	Dr.B V Rami Reddy	Ph.D	Assoc.Prof.	Electrical Power Systems	20
5	M.Venkateswarlu	Ph.D (Pursuing)	Sr.Asst.Prof.	Power Electronics	14
6	R.Sheba Rani	Ph.D (Pursuing)	Asst.Prof.	Power Electronics	8
7	S.Sankara Prasad	M.Tech	Asst.Prof.	Electrical Power Systems	11
8	K Jagadeesh	M.Tech	Asst.Prof.	Power Electronics	8
9	M.Bhagya Lakshmi	M.Tech	Asst.Prof.	Electrical Power Systems	11

10	U Chaithanya	M.Tech	Asst.Prof.	Power Electronic Drives	5
11	Y Hazarathaiah	M.Tech	Asst.Prof.	Electrical Power Systems	11
12	P.Pradeep Kumar	M.Tech	Asst.Prof.	Power Electronics	5
13	K.Deepak	M.Tech	Asst.Prof.	Power Industrial Drives	6
14	A Suresh Kumar	Ph.D (Pursuing)	Asst.Prof.	Electrical Power Systems	11
15	E Jyothirmai	M.Tech	Asst.Prof.	Power Electronics	5
16	K Jayasree	M.Tech	Asst.Prof.	Electrical. Power Systems	8
17	P.SivaDeepthi	M.Tech	Asst.Prof.	Power Electronic Drives	8
18	M.Jambulaiah	M.Tech	Asst.Prof.	Power Electronics	5
19	K.Venkateswaramma	M.Tech	Asst.Prof.	Power Electronics	6 Months
20	B.Vishala	M.Tech	Asst.Prof.	Electrical Power Systems	6 Months
21	V.Sowmya Sree	M.Tech	Asst.Prof.	Power Electronics	5
22	E.Siva Kumar Goud	M.Tech	Asst.Prof.	Power Industrial Drives	6 Months
23	T.Nishanth	M.Tech	Asst.Prof.	Power Electronics and Electrical Drives	6 Months
24	Y.Harish	M.Tech	Asst.Prof.	Power Electronics	6 Months
25	J.Praveen Kumar	M.Tech	Asst.Prof.	Power	6 Months

				Electronics	
26	D.Raziya	M.Tech	Asst.Prof.	Power Electronics	6 Months

6. Details of non-teaching staff:

S.No	Name	Qualification	Designation
1.	T.Sankar Rao	B.Tech	Technician
2.	A.Chandrasekhar Naidu	M.Tech	Technician
3.	D.Jaya Raj	Diploma	Technician

7. Admission Status:

a. No. of students admitted:

Programme	Academic year 2020-21	
	Sanctioned	Admitted
UG (Specialization)	120	89
PG (Specialization)	18	1

8. Budget Allocation and Utilization during the year:

Academic Year	Total Budget Allocated		Total Budget Utilized		Remarks
	Non-Recurring	Recurring	Non-Recurring	Recurring	
2020-21	----	15000/-	----	13820/-	Online classwork had been conducted in year 2020-21 for most of the year. As a result the expenditure was restricted.

9. Physical Resources Available:

- Number of classrooms: 06
- Number of faculty rooms: 22
- Number of staff rooms: 02 with necessary cubicles
- Available ICT tools in classrooms: 03
- Laboratories: 07

S.No	Name of the Laboratory	Total Cost of Equipment (Non-consumable)
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1	Electrical Machines	17,35,802
2	Networks Lab	90,700
3	Control systems	1,17,000
- 4	Power Electronics	9,65,879
5	Electrical Measurements	3,84,130
6	Electrical Machines and Power Systems Lab	2,80,210
7	PLC K1 T01-PLC TRAINING KITS	3,39,200
Total Cost		39,12,921

- f. Department Library:
Number of Titles: 45

Part - B

1. Curriculum:

- a. Is the Curriculum updated (Yes / No) : Yes
- b. If 'Yes', mention the changes made in detail and the reasons for the same:

The curriculum had been revised to R20 regulations in order to ensure that students have an opportunity to involve themselves in internships so as to get practical expenditure of industry requirements.
- c. Are the changes made in tune with the feedback of the employers/ industrial experts / academicians / parents / alumni? (Provide the surveys as an attachment):

2. Teaching and Learning Process:

- a. Student to Teacher Ratio (STR):

Student to Teacher Ratio	Academic year 2020-21
Sanctioned intake (UG) N1	89
Sanctioned intake (lateral entry) (UG) N2	26
Sanctioned intake (PG1) N3	1
Total number of students [(N1+N2)X3]+(N3X2)	508

Total number of faculty (excluding first year)	26
STR	19.53

b. Percentage of faculty using ICT for effective teaching and learning mechanism:

No. of faculty on roll	Number of faculty using ICT tools	Available ICT tools and resources	Number of ICT enabled rooms	e-resources and techniques used
26	22	NPTEL videos Virtual Labs MATLAB	3	NPTEL videos e-journals (J-Gate, Delnet, Taylor & Francis) Flipped class rooms

c. Students academic performance (outgoing batch result analysis):

Number of students appeared	Number of students passed in distinction	Number of students passed in first class	Number of students passed in second class	Number of students passed in pass class
112	43	56	3	--

d. Innovative processes adopted in teaching-learning process:

- i. Modern teaching methodologies like ICT based learning, flipped class rooms, virtual labs are being employed to create interest among the students.
- ii. LCD projectors with necessary screens are consistently used in the class-room lecture delivery.
- iii. Internet facility is provided to students for deeper inquiry into their subjects.
- iv. The technologies are used even in the co-curricular activities during seminars, workshops etc. Every classroom is enabled with Wi-Fi connection for better learning.
- v. Priority is given to learning through hands on experience where in the students are made to perform various experiments to understand the concept better. In order to do so, the experiments are also designed in such a manner so as to be aligned with the concepts being learned in the class.

- vi. Continuous mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.
 - vii. Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.
 - viii. The students are also encouraged to take up NPTEL certifications to improve their domain knowledge.
 - ix. Regular assessment tests are also conducted to analyze the learning capabilities of students.
 - x. The website has been designed in such a manner where in all the data required by the student is made available. The lecture notes along with previous years question papers are also placed in the website for the benefit of students. Video lectures of the faculty on important topics are also placed in the website so that it enables the student to have an idea about the topic before he or she comes to the class.
 - xi. Apart from the above, the students are also trained on latest technological trends involving MATLAB in order to make them industry ready.
- e. Status of student mentoring system and action taken:
Continues mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.

Facilities being created for the above:

Research groups have been created in the departments. The various projects taken up by the students also relate to their research groups.

- f. Achievements and Recognitions of students:
- g. Details of scholarships/financial support by various organizations:

Name of the organization	Name of the scheme	Number of students	Amount

- h. Students participation in various co-curricular and extra-curricular activities (seminars, conferences, workshops, industrial tours, training sessions, sports, etc)
Training sessions are being conducted for advanced learners on certification courses like Mat Lab & PLC Scada.
- i. Status of remedial classes for slow learners and GATE/CAT, etc classes for advanced learners:
Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.

GATE coaching is been given by the senior faculty in the department for advanced learners.

Advanced learners are also been given Training on Certification Courses like Mat Lab & PLC Scada..

- j. Are the faculty members maintaining the course files? (course file shall consists of class time-table copy, syllabus copy along with outcomes, lesson plan, sessional and end examination question papers, assignment, quiz, sessional marks, result analysis, CO attainment, mapping of CO and PO, class notes, hard copies PPTs)

All the faculties in the department are handling course files

- k. Company wise details of the students placed (on-campus and off-campus) and details of the students qualified in various competitive examination (attach proofs)

1	TCS	2
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- l. CO and PO attainment:

Performed all CO-PO attainment

- m. Whether the employers, alumni and program exit surveys are considered for the attainment calculations or not? If yes, attach proofs

Yes

- n. Whether the Student Satisfactory Survey is conducted or not? If yes, attach proofs

NO

3. Faculty Research and Innovation:

- a. Details of the faculty information:

- b. Details of research proposals submitted/sanctioned/ on-going/ completed by the faculty members:

S.No	Name of the faculty	Title of the Project	Sponsoring Agency	Cost of the project	Year of sanctioned	Status
1.	Dr.M.Rama Prasad Reddy	Modernization of Existing Power Systems & Simulation Lab for Research and Consultancy	MODROBS (AICTE)	19,52,978/-	2018	Sanctioned

(Signature)
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2	Dr.M.Ram a Prasad Reddy	Modernizatio n of Electrical Machines Laboratory by using Variable Frequency Drives	MODROB S (AICTE)	10,96078/-	2019	Sanctio ned
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- c. Details of in-house projects submitted/sanctioned/ on-going/ completed by the faculty members:

S.No	Name of the faculty	Title of the Project	Cost of the project	Year of sanctioned	Status

- d. Major addition to the infrastructure of the department through project funding (List the equipments/ facilities and costs) :

S.No.	Equipment	2020-21 (Cost in Rs.)

- e. Details of the publications in various journals during 2020-21:

S.No	Name of the Faculty	Paper Title	Name Of The Journal/Conference	Volume (Issue), page no	Date of Publication	DOI
1	Dr C Srinivasa Rao	A Novel Method for Dynamic Stability Enhancement of SMIB System	In: Hitendra Sarma T., Sankar V., Shaik R. (eds) Emerging Trends in Electrical, Communications, and Information Technologies. Lecture Notes in Electrical Engineering, vol 569. Springer, Singapore.	Vol. 569	Oct-20	https://doi.org/10.1007/978-981-13-8942-9_30

e. Srinivasa Rao
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			https://doi.org/10.1007/978-981-13-8942-9_30			
2	Dr C Srinivasa Rao	Dynamic Stability Enhancement Of Smib System With Gapod Controller Based Upfc	Solid State Technology	Volume : 63 Issue: 6 Publication Page No. 10269-10280	Sep-20	
3	Dr. M. Rama Prasad Reddy	Simulation Of Dynamic Voltage Restorer For Power Quality Improvement With Hysteresis Voltage Controller	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
4	Dr. M. Rama Prasad Reddy	A Novel Method of three phase seven level CHB inverter for Industrial Applications	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

5	Dr. M. Rama Prasad Reddy	Recent trends in Smart Meter technology	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
6	Dr. B.V.Rami Reddy	Optimal Placement and Sizing of IPFC hybrid Technique	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
7	Dr G Pandu Ranga Reddy	H-bridge Inverter based power line conditioner of voltage balance method	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
8	Dr G Pandu Ranga Reddy	Mitigation of Certain Power Quality Issues in Wind Energy Conversion System	European Journal of Electrical Engineering Vol. 22, No. 6, December, 2020, pp. 447-455 Journal homepage: http://iieta.org/journals/ejee DOI:	Vol. 22, No. 6, pp. 447-455	December, 2020	https://doi.org/10.18280/ejee.220606


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		Using UPQC and IUPQC Devices	https://doi.org/10.18280/ejee.220606			
10	S Sankara Prasad	H-bridge Inverter based power line conditioner of voltage balance method	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
11	M.Bhagya Lakshmi	Power Quality by using DVR Based Super capacitor	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
12	M.Bhagya Lakshmi	Simulation of Solar Based Five Level Inverter Fed with Industrial Applications	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

13	Y. Hazarathaiah	Simulation of three phase seven level Cascaded H-Bridge inverter for Induction Motor drives	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
14	Y. Hazarathaiah	Simulation of three phase seven level Cascaded H-Bridge inverter for Induction Motor drives	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-2	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2021	ISBN: 978-93-90214-05-2
15	A. Suresh Kumar	Advanced single phase three level multilevel inverter for Renewable energy systems	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

16	A. Suresh Kumar	Harmonic Reduction of Grid Integrated Solar PV System by Using VSC	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
17	U Chaithanya	Improvement of Power Quality by using Dynamic Voltage Restorer Performance for Induction Motor Drives	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
18	U CHAITHANYA	Simulation of Fuzzy Logic Controller Based Four Phase Switched Reluctance Motor	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1


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19	K Jayasree	Improvement of Power Quality by using Dynamic Voltage Restorer Performance for Induction Motor Drives	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
20	K Jayasree	Simulation of Fuzzy Logic Controller Based Four Phase Switched Reluctance Motor	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
21	E Jyothirmai	Hybrid Electric Vehicle System with DC/DC Converter Energy Storage	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1


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22	E Jyothirmai	Power Quality Improvement In Distribution System By Using Dual Voltage Source Inverter	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
23	Karanam Deepak	Post COVID-19 Potentials and Innovation: The Future Supply Chain	International Journal of Research in Pharmaceutical Sciences, 11(SPL1), 1054-1057 https://doi.org/10.26452/ijrps.v11iSPL1.3461 (Scopus Indexed)	11(SPL1), 1054-1057	Oct-20	https://doi.org/10.26452/ijrps.v11iSPL1.3461
24	P. Siva Deepthi	Simulation Of Solar Based Five Level Inverter Fed With Industrail Applications	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
25	P. Siva Deepthi	Power Quality by using DVR Based Super capacitor	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

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26	V.Sowmya Sree	Fuzzy Controller Based Buck Boost and Cuk Converter fed BLDC motor drive	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VI, ISSN NO:0886-9367, Page No: 1261-1267	Jun-21	https://drive.google.com/file/d/1qRh9O991vSnWi4OtHQSAM5h2tviBrG0G/view
27	B Vishala	Hybrid Electric Vehicle System with DC/DC Converter Energy Storage	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-1	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
28	B Vishala	Enhancement Of Power Quality By Using Z-Source Based Dynamic Voltage Restorer	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-2	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1
29	K Venkateswaramma	Enhancement Of Power Quality By Using Z-Source Based Dynamic Voltage Restorer	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

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			16, 2020 ISBN: 978-93-90214-05-3			
30	K Venkateswaramma	Power Quality Improvement In Distribution System By Using Dual Voltage Source Inverter	National E-Conference On Technology for Impactful and Sustainable Organized by ECE Dept., G.Pullaiah College Of Engineering and Technology, TISDS-2020 December 15-16, 2020 ISBN: 978-93-90214-05-4	Proceedings of the AICTE Sponsored National E-Conference	December 15-16, 2020	ISBN: 978-93-90214-05-1

f. Details of the faculty who attended Workshops/STTPs/FDPs:

S.No.	Name of the faculty	Name of the workshop/STTP/FDP	Duration	Organized by	Amount claimed towards TA, DA and registration fee
1.	Dr.M.Rama Prasad Reddy	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
2.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
3.	Dr.G.Panduranga Reddy	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and	Free Registration


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				Management (BVICAM)	
4.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
	Dr.B.V.Rami Reddy	MicroGrid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
5.		Recent Trends in Electrical engineering	08-06-2020 to 12-06-2020	Rama Chandra Engineering College ,Eluru	Free Registration
6.	M.Venkateswa rlu	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
7.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
8.		PYTHON PROGRAMMING	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
9.		Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
10.		Micro Grid: Fundamentals, Control and Stability Aspects”	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
11.	Y.Hazarathaia h	Micro Grid Fundamentals Control and Stability Aspects	03-08-2020 To 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
12.	K.Jayasree	Python programming	13-07-2020 to	Bharati Vidyapeeth's Institute of Computers	Free

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			25-07-2020	Applications and Management (BVICAM)	Registration
13.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
14.	U.Chaitanya	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
15.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
16.	K.Jagadeesh (relieved on 18-11-20)	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
17.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G.Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
18.	K.Deepak	Research Opportunities in Image Processing and Machine Learning	29-06-2020 to 03-07-2020	Chaitanya Bharathi Institute of Technology, Hyderabad	Free Registration
19.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration
20.	P.Siva Deepthi	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
21.		Micro Grid: Fundamentals, Control and Stability Aspects	03-08-2020 to 07-08-2020	G. Pulla Reddy Engineering College(Autonomous) - Kurnool	Free Registration

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22.	E.Jyothirmai	Python Programming	13-07-2020 to 25-07-2020	Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM)	Free Registration
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g. Details of the faculty who organized Conferences/Workshops/STTPs/FDPs:

S.No.	Name of the faculty	Name of the conference/ Workshops/STTPs/FDPs	Duration	No. of participants
1	Dr.M.Rama Prasad Reddy	A Webinar on Career Opportunities In IT Sector For Electrical Engineering by Miss. S. Shahinoor Banu, Devops Engineer, Capgemini (Alumni of GPCET,2012-16 Batch)	One Day	210
2	Dr.M.Rama Prasad Reddy	A Webinar on Smart Grid Technology by, by Dr. D.M. Vinod Kumar Professor, Electrical Engineering, NIT – Warangal, Telangana	One Day	230
3	Dr.M.Rama Prasad Reddy	A Webinar on New Enhancements in Software Industry by,B.Sarath Chandra, Project Engineer, SAP Consultant, Wipro(Alumni of GPCET,2015-19 Batch)	One Day	120
4	Dr.G.Pandu Ranga Reddy	A two day workshop on Linear Control System Analysis and Design with MATLAB and Simulink by Mr.J.Prem Kumar, Product Manager-Math Works,Capricot Technologies Pvt,Ltd,Hyderabad	Two Days	110
5	Dr.M.Rama Prasad Reddy	A Webinar on Applications of Artificial Intelligence in Power Systems by Dr. Sydulu Maheswarapu Professor,	One Day	270

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		Electrical Engineering, NIT – Warangal, Telangana		
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h. Details of books/book chapters authored by the faculty:

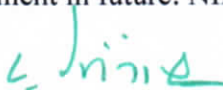
S.No.	Name of the faculty	Name of the Book Chapter	Published
1			
2			
3			

i. Details of Patents published/awarded and product development, if any:

S.No	Patent	Jurisdiction	Inventor's Name	Year of Application	Year of Grant
1	COMPUTER IMPLEMENTED METHOD FOR CONTROL OPERATION OF SMART ASSISTIVE GLASSES IN VISUALLY IMPAIRED ASSISTIVE SYSTEM	202011034416	Karanam Deepak	2020	2020
2	AN EFFICIENT SYSTEM AND METHODOLOGY TO MONITOR THE DIAGNOSTIC LABORATORY REPORTS	2020101378	Dr. M. Rama Prasad Reddy	2020	2020

j. Details of fabricated projects, if any that leads to product development in future: NIL

k. Details of revenue generated through consultancy: NIL


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l. Details of faculty awards/recognition:

m. Number of guest lectures delivered / acted as reviewer or editorial committee member or resource person, etc. NIL

n. Number of faculty who completed certification courses: 17

4. Other Information:

a. Are the minutes of the meeting of the Departmental Committee maintained : YES

b. Number of MoUs / collaborations signed with organization/institution: YES

c. How many National/ International acclaimed experts visited the department (Date, Name of the Expert, Designation, Organization and Purpose):

d. Details of new facilities added during 2020-21: NIL

e. Details of newsletters / magazines etc published:01

News Letter is being published for every semester in Academic year
Magazine is being published four issues for every Academic year

f. Future plans of the department:

To establish advanced Laboratories like Advance Electrical Drives Lab.

To get Funding projects from various Funding Agencies like SERB, AICTE, ISRO.

To train the students in getting 100% pass percentage.

To train the students in getting 100% placements.

5. SWOC Analysis:

a. **Strengths:**

1. Qualified, experienced and dedicated teaching faculty with good retention ratio.
2. Laboratories with State of the Art equipment and modern software tools.
3. Faculty contributing in design development and implementation of curriculum in Board of Studies of an Affiliating University.
4. Effective use of ICT in teaching learning process.
5. Student centric functioning with mentoring, counselling through teachers and Effective academic monitoring.
6. Active NSS Unit.

b. **Weakness:**

1. Less Industry – Institute interaction.
2. Institute lacks in revenue generation.
3. Less student pursuing higher education.
4. Involvement of Alumni is less.

c. **Opportunities:**

1. To arrange more number of FDPs /STTPS/ National Level /International Level conferences.
2. To arrange specialized Training programs by the faculty.
3. Scope for interdisciplinary and sponsored projects.

d. **Challenges:**

1. Strengthen Industry-Department Interaction.
2. More placements in core companies.
3. Encouraging students for competitive examinations and higher studies.
4. More focus on Industrial training for faculty and students.

6. **Suggestions / Recommendations of the Committee:**

Thimpu

Signature of audit Member – 1

Designation: *HOD of Assoc. prof.*

Address: *ELE DEPT,*

Mobile Number: *9451236777*

e-mail: *hodece@gpcer.ac.in*

[Handwritten Signature]

Signature of the HoD with date

G. of no.

Signature of audit Member – 2

Designation: *Associate professor*

Address: *DEPT. of ECE*

Mobile Number: *9440432184*

e-mail: *ece.ramarao@gpcer.ac.in*

[Handwritten Signature]
PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



G.Pullaiah College Engineering and Technology :: Kurnool
Proforma for Internal Academic Audit

ACADEMIC YEAR: 2020-21

Part – A: General Information

1. Name of the department: Mechanical Engineering

2. Year of establishment: 2013

3. Programmes offered:

3.1 UG Programmes: Mechanical

3.2 PG Programmes:

4. Accreditation Status: NO

5. Details of the Faculty:

S.No	Name	Qualification	Designation	Specialization	Experience
1	Dr. Satish Babu	M.Tech Ph.D	Professor	Industrial Engineering	27
2	Dr K Mallikarjuna	M.Tech Ph.D	Professor	Machine Design and Production Management	21
3	Dr S Venkateswarlu	M.Tech Ph.D	Professor	Industrial Engineering	25
4	Mr N Govind Rao	M.Tech	Associate Professor	CAD/CAM	15
5	Mr G Siva Prasad	M.Tech	Assistant Professor	Production Engineering	8
6	Mr A Ramanjaneya Reddy	M.Tech	Assistant Professor	Machine Design	8
7	Mr A Srinivas	M.Tech	Assistant Professor	Machine Design	8
8	Mr. A.V. Krishna Chaitanya	M.Tech	Assistant Professor	Thermal Sciences	6
9	Mr K	M.Tech	Assistant	CAD/CAM	6

	ChinnaVeeresh		Professor		
10	Mr M Nagaraju	M.Tech	Assistant Professor	Thermal Sciences	1
11	Mr M Sekhar	M.Tech	Assistant Professor	Product Design	1

6. Details of non-teaching staff:

S.No	Name	Qualification	Designation
1	V.Naganna	ITI	Senior Lab technician
2	B.Kiran Kumar	ITI	Lab technician

7. Admission Status:

a. No. of students admitted:

Programme	Academic year 2020-21	
	Sanctioned	Admitted
UG (Specialization)	60	56
PG (Specialization)		


8. Budget Allocation and Utilization during the year:

Academic Year	Total Budget Allocated		Total Budget Utilized		Remarks
	Non-Recurring	Recurring	Non-Recurring	Recurring	
2019-20		15000		13800/-	Most of the academic year had been conducted through Online mode and as a result the expenditure has been reduced

9. Physical Resources Available:

- Number of classrooms:3
- Number of faculty rooms: 1 with necessary cubicles
- Number of staff rooms: 1 with necessary cubicles
- Available ICT tools in classrooms: YES
- Laboratories:

S.No	Name of the Laboratory	Total Cost of Equipment (Non-consumable)


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1	MATERIAL SCIENCE & ENGINEERING	2,47,277.00
2	Engineering Workshop	1,56,382.00
3	Thermal Engineering	10,38,280.00
4	Manufacturing Technology	3,99,819.00
5	Heat transfer	3,74,198.00
6	CAD & CAE Lab	24,05,000.00
7	Metrology and Measurements	5,74,358.00
8	Applied Mechanics	58245.00
9	Machine Tools	8,20,260.00

- f. Department Library:
Number of Titles: 75

Part - B

1. Curriculum:

- a. Is the Curriculum updated (Yes / No) : Yes
- b. If 'Yes', mention the changes made in detail and the reasons for the same:

The curriculum has been updated from R19 to R20 in order to ensure that students involve themselves more in internship activities. It has been designed such that the students are updated about industry requirements

- c. Are the changes made in tune with the feedback of the employers/ industrial experts / academicians / parents/ alumni? (Provide the surveys as an attachment): yes

2. Teaching and Learning Process:

- a. Student to Teacher Ratio (STR):

	Academic year 2020-21
Sanctioned intake (UG) N1	60
Sanctioned intake (lateral entry) (UG) N2	6
Sanctioned intake (PG1) N3	
Sanctioned intake (PG2) N4	

Total number of students N1+N2+N3+N4	66
Total number of faculty (excluding first year)	11
STR	20

b. Percentage of faculty using ICT for effective teaching and learning mechanism:

No. of faculty on roll	Number of faculty using ICT tools	Available ICT tools and resources	Number of ICT enabled rooms	e-resources and techniques used
11	8	Projector	2	YES

c. Students academic performance (outgoing batch result analysis):

Number of students appeared	Number of students passed in distinction	Number of students passed in first class	Number of students passed in second class	Number of students passed in pass class
55	21	27	2	

d. Innovative processes adopted in teaching-learning process:

- i. Modern Technology 7 methodologies like ICT based learning , flipped class rooms , virtual labs are being employed to create interest among the students.
- ii. LCD projector with necessary screens are consistently used in the classroom Lecture delivery.
- iii. Internet facility is provided to students for deeper inquiry in to the subjects.
- iv. The technologies are used even in the co-curricular activities during seminars workshop etc. Every classroom is enabled with Wi-Fi connection for better learning.
- v. Priority is given to learning through hands on experience where in the students are made to perform various experiments to understand the concept better. In order to do so, the experiments are also designed in such a manner so as to be aligned with the concepts being learned in the class.
- vi. Continuous mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects.
- vii. Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessment.
- viii. The students are also encouraged to take up NPTEL certification to improve their domain knowledge

ix. Regular assessment test are also conducted to analyze the learning capabilities of students.

x. The website has been designed in such a manner where in all the data required by the student is made available. The lecturer notes along with previous years question papers are also placed in the website for the benefit of students. Video lectures of the faculty on important topics are also placed in website so that it enables the students to have an idea about the topic before he or she comes to the class.

e. Status of student mentoring system and action taken:

Continuous mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various groups based on their interest.

Facilities being created for the above:

Research groups have been created in the departments. The various projects taken up by the students also relate to their research groups

f. Achievements and Recognitions of students:

g. Details of scholarships/financial support by various organizations:

Name of the organization	Name of the scheme	Number of students	Amount

h. Students participation in various co-curricular and extra-curricular activities (seminars, conferences, workshops, industrial tours, training sessions, sports, etc)

Training sessions are being conducted for advanced learners on certification courses like CATIA, AUTOCAD .

i. Status of remedial classes for slow learners and GATE/CAT, etc classes for advanced learners:

Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessment.

Gate Coaching is being given by the senior faculty in the department for advanced learners

- j. Are the faculty members maintaining the course files? (course file shall consists of class time-table copy, syllabus copy along with outcomes, lesson plan, sessional and end examination question papers, assignment, quiz, sessional marks, result analysis, CO attainment, mapping of CO and PO, class notes, hard copies PPTs)

All the faculty in the department are handling course files

- k. Company wise details of the students placed (on-campus and off-campus) and details of the students qualified in various competitive examination (attach proofs)

Sl.No	Organization	CTC	count
1.	TCS	3.5	1

- l. CO and PO attainment:
Performed all CO PO attainment

- m. Whether the employers, alumni and program exit surveys are considered for the attainment calculations or not? If yes, attach proofs: YES

- n. Whether the Student Satisfactory Survey is conducted or not? If yes, attach proofs: yes

3. Faculty Research and Innovation:

- a. Details of the faculty information:

S.No	Name of the Faculty	Designation	Total number of publications in journals and conferences	ORCID number	Scopus Id	h-index
1	Dr K Mallikarjuna	Professor	40	https://orcid.org/0000-0003-0336-2472	10	3
2	Dr S Venkateswarlu	Professor	15	---	4	--

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- b. Details of research proposals submitted/sanctioned/ on-going/ completed by the faculty members: NIL

S.No	Name of the faculty	Title of the Project	Sponsoring Agency	Cost of the project	Year of sanctioned	Status

- c. Details of in-house projects submitted/sanctioned/ on-going/ completed by the faculty members : NIL

S.No	Name of the faculty	Title of the Project	Cost of the project	Year of sanctioned	Status

- d. Major addition to the infrastructure of the department through project funding (List the equipments/ facilities and costs) : NIL

S.No.	Equipment	2020-21 (Cost in Rs.)

- e. Details of the publications in various journals during 2020-21:

S.No.	Details of the Publication	indexing	Impact factor	Amount claimed as an Incentive
1	A critical Review on Nano refrigerants: Boiling, condensation and tribological Properties, international journal of Refrigeration (ELSEVIER) Volume 128 PP 139-152	SCI	2.5	5000
2	A Nanofluids and Nano coatings used for solar energy harvesting and heat transfer applications:A Retrospective review analysis Materials Today(ELSEVIER) Volume 37, Part 2, 2021, Pages 823-834	SCI	1.8	5000
3	Multi stage Reliability optimization using stochastic Dynamic Programming Volume 63, issue 2 Solid state Technology	UGC	-	2000

4	Solar Powered Autonomous Quadcopter International Journal of Research and Analytical Reviews (IJRAR) Volume 7, Issue 3	UGC	-	2000
5	A Review on Simultaneous Scheduling of Machines and AGV'S in an FMS Environment	UGC	-	2000
6	Optimum Design Of closed circle Layout In Flexible Manufacturing System—An Approach Of NTOT	UGC	-	2000
7	Robust Operation of Multipurpose Reservoirs by a A Two-Stage Stochastic Optimization	UGC	-	2000
8	Modelling and Optimization of Solar Light Trap For “Reducing and Controlling” The Pest Population	UGC	-	2000
9	An Overview on Ceramic Matrix Composites 11with Nano Technology	UGC	-	2000
10	Development Of Double Wheeled Multipurpose Weed Remover	UGC	-	2000
11	design and analysis of die and punch on thinning sheet in deep drawing process	UGC	-	2000
12	four in one seed planting machine			
13	optimization of drilling process parameters used in machining of glass fiber reinforced epoxy composite	UGC	-	2000
14	Optimization of Process Parameters for EN31 Steel in CNC Milling	UGC	-	2000
15	Analysis of Piston of Internal Combustion Engine on Different Materials by Using CAE Tool ANSYS	UGC	-	2000
16	Performance Analysis of Heat Pipe Using Analysis Software's	UGC	-	2000
17	Experimental investigation on Refrigeration System Designed for Low Temperature	UGC	-	2000
18	Experimental Investigations of a Refrigeration System Based on	UGC	-	2000

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	NanoRefrigerants and Nano-Lubricants			
19	Analyzing the Impact of 5S Implementation in the Manufacturing Department: A Case Study	UGC	-	2000
20	Performance of Waste Insulating Mineral Oil-Based Biodiesel in a CI Engine	UGC	-	2000
21	A Study On Improvement In Computational Efficiency For Hci Engine Using Turbochargers And Superchargers	UGC	-	2000
22	Study the impact of state of charge dependent exchange current density on the generated voltage hysteresis of silicon anode-based lithium half cells	UGC	-	2000
23	Modelling laminar phenomena in a Casson rheological fluid from a circular cylinder with slip	UGC	-	2000
24	Mechanical Behavior Of Marble (Caco3) Filled C95400 Alloy For Bearing Application	UGC	-	2000
25	optimization of drilling parameters on carbon fiber reinforced polymer composite using fuzzy logic	UGC	-	2000
26	experimental investigation of honeycomb composite materials	UGC	-	2000
27	experimental investigation of honeycomb composite materials USING Python programming	UGC		2000

f. Details of the publications in various conferences during 2020-21:

S.No.	Details of the Publication	Indexing, if any	Amount claimed as an Incentive
1			

g. Details of the faculty who attended Workshops/STTPs/FDPs:

S.No	Name of the faculty	Name of the workshop/STTP/FD	Duration	Organized by	Amount claimed

		P			towards TA, DA and registration fee
1	Dr K Mallikarjuna	Research Advances in Science & Engineering"	14-18 June 2021	Chadalawada Ramanamma Engineering College (Autonomous)	free
2	Mr M.Nagaraju	Alternate fuels for I C ENGINES	2-6 Aug 2021	University college of Engineering (UCET), Vinobabhave University, Hazirabag	Free
3	Mr M.Nagaraju	Exergy and thermoeconomic Investigation in power generation systems	9-13 Aug 2021	Kingstone Engineering College University, Hazirabag	Free

h. Details of the faculty who organized Conferences/Workshops/STTPs/FDPs:

S.No.	Name of the faculty	Name of the conference	Duration	No. of participants
--	----	nil	--	---

i. Details of books/book chapters authored by the faculty: nil

j. Details of Patents published/awarded and product development, if any: 02

K.Mallikarjuna, "Design and Optimization of High Speed Infrared Heating Furnace", Application No.202141012160 A, Published in Intellectual Property Right INDIA on 02/04/2021

K.Mallikarjuna, " Fabrication and Characterization of LM9 Alloy Reinforced with coconut Shell ash particles", Application No.202141017688, Published in Intellectual Property Right INDIA on 16/4/21

k. Details of fabricated projects, if any that leads to product development in future: NIL

l. Details of revenue generated through consultancy: NIL

m. Details of faculty interaction with outside world (industry/research centres/ educational institutions, etc): NIL

- n. Details of faculty awards/recognition: NIL
- o. Preparation of e-learning materials (SWAYAM, MOOCs, NMEICT, etc):yes
- p. Number of guest lectures delivered / acted as reviewer or editorial committee member or resource person, etc.
- q. Number of faculty who completed certification courses: 00

4. Other Information:

- a. Are the minutes of the meeting of the Departmental Committee maintained :YES / NO
- b. Number of MoUs / collaborations signed with organization/institution:
- c. How many National/ International acclaimed experts visited the department (Date, Name of the Expert, Designation, Organization and Purpose): nil
- d. Details of new facilities added during 2020-21:
- e. Details of newsletters / magazines etc published: yes
- f. Future plans of the department:

5. SWOC Analysis:

- a. Strengths:
 1. Qualified , experienced and dedicated teaching faculty with good retention ratio .
 2. Laboratories with State of the art equipment and modern software tools
 3. Faculty contributing in design development and implementation of curriculam in Board of Studies of an Affliating University
 4. Active NSS Unit
- b. Weakness:
 - Less Industry-Institute interaction.
 - low Placement Ratio
 - Institute lacks in revenue generation
 - Involvement alumni is less


c. Opportunities:

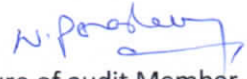
1. To arrange more number of FDPs/STTPS/National Level /International Level conferances
2. To arrange specialized Training programs by the faculty

d. Challenges:

1. Strengthen Industry –Department Interaction.
2. More placements in core companies

5. Suggestions / Recommendations of the Committee:


Signature of the HoD with date
Head of The Department
Dept of Mechanical Engineering
G. Pullaiah College of Engg. & Tech
KURNOOL - 518 452.


Signature of audit Member – 1

Designation: *Asst. Prof*

Address: *Kurnool*

Mobile Number: *9912631303*

e-mail: *prashant@netnet.in*


Signature of audit Member – 2

Designation: *Asst. Prof*

Address: *Kurnool*

Mobile Number: *909887429*

e-mail: *Sr. medhika@gmail.com*


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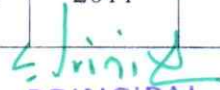
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KURNOOL-518 452 (A.P)

G. Pullaiah College of Engineering and Technology, Kurnool
(Autonomous)
Internal Academic Audit
Academic Year: 2020-21

Part – A: General Information

1. Name of the department: **Electronics and Communication Engineering**
2. Year of establishment: **2007**
3. Programmes offered:
 - 3.1 UG Programmes: **B.Tech - ECE**
 - 3.2 PG Programmes: **M.Tech - DECS**
4. Accreditation Status: **Accredited**
5. Details of the Faculty:

S.No	Faculty Name	PAN No.	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/Associate professor	Currently Associated (Y/N)	Nature of Association (Regular/Contract/Adjunct)	If contractual mention Full time or Part time	Date of Leaving (In case of currently associated is NO)
1.	Dr. T. Tirupal	AFD PT9 417 Q	Ph.D	Medical Image Processing	Assoc Professor	02-07-2014	02-07-2014	Y	Regular	-	-
2.	Dr. N. Rama Murthy	AC RPN 5303 J	Ph.D	Digital Image Processing	Professor	01-05-2015	01-05-2015	Y	Regular	-	-
3.	Dr. Sandip Swarnakar	CE MPS 1471 K	Ph.D	VLSI	Professor	24-08-2020	24-08-2020	Y	Regular	-	-
4.	Dr. K. C. T. Swamy	CZ WP K51 53K	Ph.D	Satellite Communications/Navigation	Assoc Professor	02-05-2016	02-05-2016	Y	Regular	-	-
5.	Dr.D.Raja Sekhar	AL QPR 9572 B	Ph.D	Digital Image Processing	Assoc Professor	07-06-2011	07-06-2011	N	Regular	-	17-11-2020


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6.	Mr. G. Rama Rao	AN WP G86 30P	M.Tec h	Digital Systems & Comput er Electron ics	Assoc Professor	21-05- 2015	21-05- 2015	Y	Regular	-	-
7.	Mr. B.Obulesu	AL XPB 9848 D	M.Tec h	VLSI System Design	Assoc Professor	20-06- 2016	20-06- 2016	Y	Regular	-	-
8.	Mr. T. Suman	AIV PT6 761 A	M.Tec h	Wireles s Mobile Communi cation s	Asst Professor	24-08- 2020	24-08- 2020	Y	Regular	-	-
9.	K. Vanitha	AL XPV 2948 Q	M.Tec h	Digital Electron ics & Communi cation Systems	Assistant Professor	12-6- 2019	12-6- 2019	N	Regular	-	19-12- 2020
10.	Mr. P. Vishnu Kumar	BB XPP 2235 H	M.Tec h	Embedd ed Systems	Asst Professor	10-06- 2013	10-06- 2013	Y	Regular	-	-
11.	Mr. E. Upendra nath Goud	AB OPE 4900 G	M.Tec h	Digital Systems & Comput er Electron ics	Asst Professor	10-06- 2013	10-06- 2013	Y	Regular	-	-
12.	Ms. B. Geetha Rani	AZB PB9 189 R	M.Tec h	Digital Electron ics & Communi cation Systems	Asst Professor	02-01- 2014	02-01- 2014	Y	Regular	-	-
13.	Md. A. Farida	AW KP M92 50G	M.Tec h	VLSI System Design	Asst Professor	01-01- 2015	01-01- 2015	Y	Regular	-	-
14.	Ms. A. Parvathi	AL QPA 6537 P	M.Tec h	VLSI System Design	Asst Professor	01-01- 2015	01-01- 2015	Y	Regular	-	-
15.	Mr. K. Vinod Kumar	CCF PK8 238	M.Tec h	VLSI System Design	Asst Professor	09-03- 2015	09-03- 2015	Y	Regular	-	-

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		M									
16.	Ms. Sk Fowzia Sultana	EOJ PS9 193 M	M.Tech	Communications & Signal Processing	Asst Professor	01-04-2015	01-04-2015	Y	Regular	-	-
17.	Ms. K.Uma Maheswari	EAS PK9 390 F	M.Tech	Embedded Systems	Asst Professor	03-07-2015	03-07-2015	Y	Regular	-	-
18.	T.Swetha	AM UPT 2631 C	M.Tech	Digital Systems & Computer Electronics	Assistant Professor	25-01-2015	25-01-2015	N	Regular	-	20-11-2020
19.	B.Praveena	BO BPP 1275 G	M.Tech	Communications	Assistant Professor	03-07-2015	03-07-2015	N	Regular	-	20-11-2020
20.	P.Bindu Swetha	AU HPS 8566 2	M.Tech	VLSI	Assistant Professor	02-11-2015	02-11-2015	N	Regular	-	18-11-2020
21.	Mr. K. Anil Kumar	CC XPK 9960 N	M.Tech	Communications & Signal Processing	Asst Professor	23-06-2016	23-06-2016	Y	Regular	-	-
22.	Mr. D.Imran	AE YPI 7779 E	M.Tech	Embedded Systems	Asst Professor	04-07-2018	04-07-2018	Y	Regular	-	-
23.	Ms. S.Ruksana Begum	GKJ PS9 299 L	M.Tech	Digital Electronics & Communication Systems	Asst Professor	01-07-2019	01-07-2019	Y	Regular	-	-
24.	Ms. G.Mahalaxmi	GA AP M68 87B	M.Tech	Digital Electronics & Communication Systems	Asst Professor	01-07-2019	01-07-2019	Y	Regular	-	-
25.	Ms. B. Eramma	ACJ PE1 849	M.Tech	Embedded Systems	Asst Professor	17-07-2019	17-07-2019	Y	Regular	-	-

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		A									
26.	Mr. S. Syed Shanawaz	LPI PS2 072 A	M.Tech	Communication & Signal Processing	Asst Professor	17-07-2019	17-07-2019	Y	Regular	-	-
27.	S.Sofia Saba	MA DPS 5258 M	M.Tech	Embedded Systems	Assistant Professor	08-07-2019	08-07-2019	N	Regular	-	24-12-2020
28.	Mr. C. V. Sathish Kumar	AX HPV 5705 G	M.Tech	Digital Electronics & Communication Systems	Asst Professor	03-08-2020	03-08-2020	Y	Regular	-	-
29.	Ms. S. Harika	LUE PS4 292 R	M.Tech	Communication & Signal Processing	Asst Professor	03-08-2020	03-08-2020	Y	Regular	-	-
30.	Ms. M. Rachana	CH HPR 4150 C	M.Tech	VLSI & Embedded Systems	Asst Professor	03-08-2020	03-08-2020	Y	Regular	-	-
31.	Ms. P. Ipshitha	DB APP 5494 K	M.Tech	Embedded Systems	Asst Professor	10-08-2020	10-08-2020	Y	Regular	-	-
32.	Ms. P. Mary Swetha	NR OPS 0739 G	M.Tech	Digital Electronics & Communication Systems	Asst Professor	10-08-2020	10-08-2020	Y	Regular	-	-
33.	Ms. N. Hari Priya	CFS PN8 796 R	M.Tech	VLSI & Embedded Systems	Asst Professor	10-08-2020	10-08-2020	Y	Regular	-	-
34.	Mrs A.Sreevani	GO CPS 2248 Q	M.Tech	Digital Electronics & Communication Systems	Asst Professor	17-08-2020	17-08-2020	Y	Regular	-	-

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6. Details of non-teaching staff:

S.No	Name	Qualification	Designation
1.	A.Sadak Hussain	DECE	Technician
2.	D.V.Gopi Krishna	DECE	Technician
3.	V.Yogiswaraachari	DECE	Technician
4.	K.Adhishesulu	DECE	Technician
5.	M.Uday Kiran	ITI	Technician
6.	Y.Bharath	ITI	Technician

7. Admission Status:

a. No. of students admitted:

Programme	Academic year 2019-20	
	Sanctioned	Admitted
UG (Specialization)	180	180
PG (Specialization)	18	01

8. Budget Allocation and Utilization during the year:

Academic Year	Total Budget Allocated		Total Budget Utilized		Remarks
	Non-Recurring	Recurring	Non-Recurring	Recurring	
2020-21	25000	15000	24386	14100	Most of the period relating to 2020-21 was conducted online due to Covid Pandemic

9. Physical Resources Available:

- Number of classrooms: **09**
- Number of faculty rooms: **01 room with necessary Cubicles**
- Number of staff rooms: **01 room with necessary Cubicles**
- Available ICT tools in classrooms: **05**
- Laboratories:

S.No	Name of the Laboratory	Equipment	Quantity	Cost
1.	Electronic Devices and Circuits Lab	Cathode Ray Oscilloscopes	12	462363.40
		Function Generators	12	
		Digital Multi Meters	10	
		Decade Resistance Box	10	
		Regulated Power Supply	12	
		Digital Voltmeters	24	
		Digital Ammeters	24	
		PN Diode Characteristics Trainers	2	
		Zener Diode Characteristics Trainers	2	
		FET Characteristics Trainers	2	

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		SCR Characteristics Trainers	2	
		Rheostats	2	
2.	Electronic Circuit Analysis Lab	Cathode Ray Oscilloscopes	12	626790.2
		Function Generators	12	
		Regulated Power Supplies	12	
		Stabilizer	1	
		Digital Voltmeters	24	
		Digital Ammeters	24	
		Decade Inductance Box	10	
		Decade Capacitance Box	10	
		Tina Pro	1	
		Personal Computers: Intel Pentium 3.0GHz, Dual Core Processor, 2GB RAM, 160GB HDD	12	
3.	Analog Communication Systems Lab	Function Generators 3 MHz	10	914916.20
		Digital Storage Oscilloscopes	10	
		Digital Multimeters	10	
		Antenna Measurement System	1	
		3GHz Spectrum Analyzer	1	
		Digital Oscilloscopes	12	
		Function Generators	12	
		Amplitude Modulation & Demod.	2	
		Diode Detector Characteristics	2	
		Frequency Modulation & Demod.	2	
		Balanced Modulator	2	
		Pre-Emphasis & De- Emphasis	2	
		Characteristics of Mixer	2	
		Digital Phase Detector	2	
		Phased Locked Loop	2	
		SSB System	2	
		Synchronous Detector	2	
		Frequency Synthesizer	2	
		Squelch Circuit	2	
		AGC Characteristics	2	
		AM (Transmitter) Trainer	1	
		AM (Receiver) Trainer	1	
4.	IC Applications Lab	40dB Attenuation Pads	10	534980.00
		Component Development System	10	
		Cathode Ray Oscilloscopes	12	
		Function Generators	12	
		Digital Multi Meters	10	
		Digital IC Tester	1	
		Linear IC Tester	1	

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		Analog System Lab Starter Kit	12	
		Regulated Power Supply	12	
5.	Digital Communications Systems Lab	Pulse Amplitude Modulation & Demod.	2	135574.20
		Pulse Width Mod. & Demod.	2	
		Pulse Position Mod. & Demod.	2	
		Sampling Theorem Verification	2	
		Time Division Multiplexing & Demux.	2	
		Pulse Code Modulation & Demod.	2	
		DPCM Mod. & Demod.	2	
		Delta Modulation & Demod.	2	
		Frequency Shift Keying	2	
		Phase Shift Keying	2	
		DPSK Mod. & Demod. Trainers	2	
		QPSK Trainer	1	
		Personal Computers: Intel Pentium 3.0GHz, Dual Core Processor, 2GB RAM, 160GB HDD	1	
6.	Microprocessors And Microcontrollers Lab	Microprocessor Trainers (8086)	18	
		Microcontroller Trainers (8051)	18	
		Elevator	2	
		Traffic Lights	2	
		Analog to Digital Converter	2	
		Digital to Analog Converter	2	
		Stepper Motor	2	
		8279 Study Card	2	
		8259 Study Card	2	
		8251/53 Study Card	2	
		Key board Interface	2	
		Elevator Interface	2	
		4 digit seven segment LED Display	2	
		Dual slope ADC Interface	2	
		Dual DAC Interface	2	
		Logic Control Interface	2	
		Traffic Light Interface	2	
		MSP EXP430 G2553 Trainers	35	
		MSP EXP430 FR 5969 Trainers	5	
		CC3100 Booster Pack	1	
		Personal Computers: Intel Pentium 3.0GHz, Dual Core Processor, 2GB RAM, 160GB HDD	34	
7.	Digital Signal Processing Lab	DSP Trainer Kits TMS32C6713	10	791500.00
		Personal Computers: Intel Pentium 3.0GHz, Dual Core	35	

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8.	VLSI Embedded Systems Lab	Processor, 2GB RAM, 160GB HDD		453155.00
		Tiva C Series (EK-TM4C123GXL) KITS	10	
		FPGA Trainers	5	
		CPLD Trainers	5	
		Laptops: 15 PROCESSOR, 4 GB RAM, 320 GB HDD	19	
9	Micro wave and Optical Communications Lab	Klystron Power Supply	4	563017.00
		Klystron Mount with Tube	4	
		Isolator	5	
		VSWR Meter	1	
		Frequency Meter (Direct)	2	
		Frequency Meter (Micro)	1	
		Magic Tee	1	
		Directional Coupler (20db)	1	
		Detector Mount	6	
		Tunable Probes	5	
		Variable Attenuators	5	
		Fixed Attenuator (6db)	1	
		GUNN Power Supply	1	
		GUNN Oscillator	1	
		PIN Modulator	1	
		Slotted Section	5	
		Matched Termination	10	
		Wave Guide Stands	14	
		Cooling Fans	6	
		BNC to BNC Cable	4	
		LASER Trainer (OFT-2023)	1	
		Analog Fiber Optic Trainer (OFT-2021)	1	
		Digital Fiber Optic Trainer (OFT-2022)	1	
		LED Trainer (OFT-2021)	1	
		Circulator	1	
		Cathode Ray Oscilloscopes 20MHz	2	
		Servo Voltage Stabilizer	1	
LASER Diode Transmitter and Receiver	1			
Optical Fiber Transmitter and Receiver	2			
Klystron Tubes	3			
Microwave Diodes	6			
LASER Diode Transmitter and Receiver	1			
OFT Cable 1m	2			

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		Bench Setup	1	
		Short circuits	2	
		SS Tuner	2	
		Microammeter	3	
		E-plane Bend	1	
		E-plane Tee	2	
		Waveguide Horn Antenna	2	
10	IoT Lab	UG BUNDLE - 20 users	1	1369460.00
		15 PROCESSOR, 8 GB RAM, 500 GB HDD	20	
		Arduino With Cable	15	
		Buzzer	11	
		ADXL Sensor	14	
		IR Sensor	14	
		OLED	13	
		Soil Moisture Sensor	13	
		Ultrasonic Sensor	13	
11	Project Lab	Multisim Education 25	1	2733093.49
		NI my DAQ Student Kit	10	
		Pitsco my Quake Qty.5	1	
		Pitsco my VTOL Qty.5	1	
		Pitseo my Temp Qty.5	1	
		Emora my DSP Qty.5	1	
		4Yrs Academic Site License Teaching Standard Service Program on time renewal	1	
		Analog Discovery 2	10	
		Scope Probes	10	
		BNC Adapter	10	
		Analog Devices parts kit 10	10	
		Power supply	10	
		MYRIO & PITSCO TETRIS	1	
		PITSCO Tetrices Prime	2	
		15 PROCESSOR, 4 GB RAM, 320 GB HDD, 18.5 inch Monitor	34	

f. Department Library:
 Number of Titles: 350

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Part - B

1. Curriculum:

- a. Is the Curriculum updated (Yes / No) : **Yes**
- b. If 'Yes', mention the changes made in detail and the reasons for the same:
The curriculum has been updated in 2020-21 under R-20 regulations to make it more convenient to the students to get more exposure to industry related requirements. More internships have been introduced in the curriculum to make the students understand the industry requirements.
- c. Are the changes made in tune with the feedback of the employers/ industrial experts / academicians / parents / alumni? (Provide the surveys as an attachment): **Yes**

2. Teaching and Learning Process:

- a. Student to Teacher Ratio (STR):

	Academic year 2020-21
Sanctioned intake in First Year (UG) N1	180
Sanctioned intake (Lateral entry) (UG) N2	18
Sanctioned intake (PG1) N3	-
Total number of students [(N1+N2) X 3] + [(N3x2)]	594
Total number of faculty	34
STR	17.47

- b. Percentage of faculty using ICT for effective teaching and learning mechanism:

No. of faculty on roll	Number of faculty using ICT tools	Available ICT tools and resources	Number of ICT enabled rooms	e-resources and techniques used
34	34	NPTEL videos Virtual Labs Cadence Tools MATLAB CADMIOT	5	NPTEL videos e-journals (J-Gate, Delnet, Taylor & Francis) Flipped class rooms

- c. Students academic performance (outgoing batch result analysis):

Number of students appeared	Number of students passed in distinction	Number of students passed in first class	Number of students passed in second class	Number of students passed in pass class
169	69	73	08	00

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- d. Innovative processes adopted in teaching-learning process:
- i. Modern teaching methodologies like ICT based learning, flipped class rooms, virtual labs are being employed to create interest among the students.
 - ii. LCD projectors with necessary screens are consistently used in the classroom lecture delivery.
 - iii. Internet facility is provided to students for deeper inquiry into their subjects.
 - iv. The technologies are used even in the co-curricular activities during seminars, workshops etc. Every classroom is enabled with Wi-Fi connection for better learning.
 - v. Priority is given to learning through hands on experience where in the students are made to perform various experiments to understand the concept better. In order to do so, the experiments are also designed in such a manner so as to be aligned with the concepts being learned in the class.
 - vi. Continuous mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.
 - vii. Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.
 - viii. The students are also encouraged to take up NPTEL certifications to improve their domain knowledge.
 - ix. Regular assessment tests are also conducted to analyze the learning capabilities of students.
 - x. The website has been designed in such a manner where in all the data required by the student is made available. The lecture notes along with previous years question papers are also placed in the website for the benefit of students. Video lectures of the faculty on important topics are also placed in the website so that it enables the student to have an idea about the topic before he or she comes to the class.
 - xi. Apart from the above, the students are also trained on latest technological trends involving MATLAB/ NI LabVIEW/ Cadence in order to make them industry ready. Further, memorandum of understanding has also been made with Wipro 3-D Bengaluru for setting up of Center for Advancement of digital manufacturing and industrial IoT (CADMIOT), in order to impart industrial training on IoT exclusively to the students and faculty.
- e. Status of student mentoring system and action taken:
Continues mentoring and guidance is provided to students through their research mentors to improve their knowledge in various subjects. The students are segregated into various research groups based on their interest.

Facilities being created for the above:


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Research groups have been created in the departments. The various projects taken up by the students also relate to their research groups.

f. Achievements and Recognitions of students:

g. Details of scholarships/financial support by various organizations:

Name of the organization	Name of the scheme	Number of students	Amount
G.Pulla Reddy Educational Society	Education Help	5	75000/-

h. Students participation in various co-curricular and extra-curricular activities (seminars, conferences, workshops, industrial tours, training sessions, sports, etc)

Training sessions are being conducted for advanced learners on certification courses like CLAD & Web development.

i. Status of remedial classes for slow learners and GATE/CAT, etc classes for advanced learners:

Regular remedial classes after the normal classes are being conducted for slow learners who are identified through various assessments.

GATE coaching is been given by the senior faculty in the department for advanced learners.

Advanced learners are also been given Training on Certification Courses like CLAD & Web development.

j. Are the faculty members maintaining the course files? (course file shall consists of class time-table copy, syllabus copy along with outcomes, lesson plan, sessional and end examination question papers, assignment, quiz, sessional marks, result analysis, CO attainment, mapping of CO and PO, class notes, hard copies PPTs)

All the faculties in the department are handling course files.

k. Company wise details of the students placed (on-campus and off-campus) and details of the students qualified in various competitive examination (attach proofs)

S.No	Organization	CTC	Count
1	ACCENTURE	4.5LPA	27
16	BroadCom	4LPA	2
2	CTS	4LPA	22
3	Efftronics	4LPA	1
4	GlobalEdge	3.5LPA	4
5	IBM	4.5LPA	3
6	Infosys	4.5LPA	17
7	Infy TQ	3.5LPA	1
8	Medico INC	2.5LPA	7
9	MindTree	4LPA	4
10	MPHASIS	3.5LPA	3
11	NTT DaTa	3.5LPA	2

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12	SIA Publications & Distributors Pvt. Ltd	3LPA	1
13	TCS	3.36LPA	12
14	Twarana Software Solutions Pvt. Ltd.	4LPA	2
15	CapGemini	3.8LPA	4
16	Wipro	4LPA	8
		Total	120
Unique Placements			64

- l. CO and PO attainment:
Performed all CO-PO attainment
- m. Whether the employers, alumni and program exit surveys are considered for the attainment calculations or not? If yes, attach proofs : **Yes**
- n. Whether the Student Satisfactory Survey is conducted or not? If yes, attach proofs: **Yes**

3. Faculty Research and Innovation:

- a. Details of the faculty information:
- b. Details of research proposals submitted/sanctioned/ on-going/ completed by the faculty members:

S.No	Name of the faculty	Title of the Project	Sponsoring Agency	Cost of the project	Year of sanctioned	Status
1.	Dr KCT Swamy	Investigation Indian Ionosphereirregularities and correlation with space weather parameters forNavigation applications	ISRO	9,63,000	2017	Ongoing
2.	Dr KCT Swamy	Investigation of Multi-Frequency Multi-GNSS Signal Quality and Satellites Selection for Navigation Applications Over the India.	SERB	47,51,000	2018	Ongoing
3.	Dr. T. Tirupal	Internet of Things Lab	AICTE	6,80,784	2020	Ongoing

- c. Details of in-house projects submitted/sanctioned/ on-going/ completed by the faculty members:

NIL


- d. Major addition to the infrastructure of the department through project funding (List the equipments/ facilities and costs) :
Established IoT Lab and procured the following Equipment


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S.No.	Equipment	Quantity	2020-21 (Cost in Rs.)
1.	ARDUINO UNO + CABLE	17	5950.00
2.	RFID READER RC522 + TAGS	32	3680.00
3.	BREAD BOARD MINI	32	1280.00
4.	RGB LED	40	156.00
5.	LM35 SENSOR	32	1664.00
6.	RESISTOR- 330 Ω + 10 K Ω	160	40.00
7.	PUSH BUTTON	40	60.00
8.	POTENTIOMETER- 10 K Ω	32	320.00
9.	LDR SENSOR	32	96.00
10.	DHT11 SENSOR	32	2240.00
11.	LCD 16X2	32	2560.00
12.	MALE BERG STRIP	20	40.00
13.	16 \times 2 LCD BREAKOUT BOARD	32	4800.00
14.	JUMPER WIRE SET (F-F, M-F, M-M)	5	1500.00

e. Details of the publications in various journals/conferences during 2020-21:

S.No	Name of the Faculty	Title of the Paper	Name of the Journal /Conference	Volume (Issue), Page No.	Date of Publication
1	Dr T TIRUPAL	Python Based Multimodal Medical Image Fusion for Detection of Alzheimer's Disease	Journal of Communication Engineering and its Innovations	vol.6, no.2, pp.39-46	sept. 2020
		Multimodal Medical Image Fusion Based on Interval-Valued Intuitionistic Fuzzy Sets	Machines, Mechanism and Robotics. Lecture Notes in Mechanical Engineering	ISBN 978-981-16-0549-9, pp. 965-971	22, June 2021
2	Dr. N. Rama Murthy	Improving spectral efficiency and low latency in 5G framework utilizing FD-MIMO	Journal of Ambient Intelligence and Humanized Computing	Volume-12, Issue-7, pp:6955-6967	19, August 2020
		An Efficient Image Denoising by Daubechies, Symlets, Coiflets and BiorSplines Wavelets	Kala Sarovar	Vol-23, No.02, pp:222-228	July-September 2020
3	Dr. Sandip Swarnakar	Performance analysis of optimized plasmonic half-adder circuit using Mach-Zehnder interferometer for high-speed switching applications	Microelectronics	Vol.111, pp. 1-6	May 2021
		Design, analysis, and simulation of all-optical optimized AND gate using Y-shaped plasmonic waveguide for high-speed	Journal of Computational Electronics		21-Jun-21


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		computing devices			
4	Dr. K. C. T. Swamy	Double difference method with zero baselength and short baselength carrier phase measurements for NavIC satellites signal quality analysis	International Journal of Satellite Communications and Networking		March 2021
		NavIC Spoofing Detection Technique using Double Difference Carrier Phase Measurement	The international journal of analytical and modal analysis	PP. 269-274 Volume. XIII, Issue VII	June 2021
5	Dr.D.Raja Sekhar	Resolution Invariant Iterative Image Matching	Journal of Xidian University	vol.14, no.6	July 2020
		Smart Blind Stick Using Ultrasonic Sensor	Journal of Remote Sensing GIS & Technology	vol.7, no.2, pp.34-42	Nov-20
6	Mr. G. Rama Rao	Modern Agricultural Irrigation System Using ARM7	The International journal of analytical and experimental modal analysis (TIJAEMA)	Volume-XIII, Issue VI, ISSN No. 0886-9367, pp 2835-2840	June 2021
		Balloon Satellite for Monitoring of Temperature, Humidity, and Air Pressure	Journal of Analog and Digital Communications	vol.6, no.2, pp.22-30	Jun-21
7	Mr. B.Obulesu	Crosstalk Noise Analysis with RLC Coupled Interconnects in VLSI Circuits	International Journal of Control and Automation	pp. 1617 - 1622	Vol. 13, No.2, 2020
		Implementation of a Multipurpose Crosstalk Noise Avoidance by using Test Adapted Shielding Technique on ASIC	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII,	June-2021
8	Mr. T. Suman	Improved performance of impulse active noise control using active function threshold with absolute harmonic variable step-size algorithm.	Microprocessors and Microsystems (Elsevier)	Vol.1;77:103158	2020 Sep
		Implementation of robust virtual sensing algorithm in active noise control to improve silence zone. International Journal of Speech Technology.	Internation Journal of Speech Technology (Springer)	vol. 1, PP.1-12	2021 Apr
9	K.Vanitha	Miniaturized and Gain Enhancement of Tapered Patch Antenna Using Defected Ground Structure and Metamaterial Superstrate for GPS Applications	Progress In Electromagnetics Research C,	Vol. 108, pp:187-200	December 2020
		Performance Improvement in Long-Term Evolution-Advanced (LTE-A) Network Towards 5G Network	Data Engineering and Communication Technology	Volume-63, pp:243-259	November20 20

10	Mr. P.Vishnu Kumar	IoT Based Smart Parking Monitoring Using Labview and Node MCU	Journal of Electronic Design Engineering	Volume 7 Issue 2, pp.20-30	June 2021
		IoT Based Smart Home Automation and Security Using Labview and NodeMCU	Journal of Switching Hub	Volume 6 Issue 2, pp.1-12	June 2021
11	Mr. E.Upendranath Goud	Secure Text Transmission by using Video Cryptography in Real Time Applications	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VI, PP,2469-2477	June-2021
		Video Distortion alleviation using Region Based DT-CWT Fusion	Journal of Interdisciplinary Cycle Research	Volume XIII, Issue VI, PP,1638-1651	June-2021
12	Ms. B.Geetha Rani	Performance analysis of fibercommunication using fiber Bragg grating	International journal of analytical and experimental modal analysis	Volume XIII, Issue VII,	June-2021
		High Dynamic Range Image Enhancement Using Python Programming	Journal of Embedded Systems and Processing	Volume-6, Issue-2	(May-August, 2021)
13	Md. A. Farida	Investigation of Carrier- to- Noise ratio impact on GDOP in Multi-GNSS Environment	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), 15TH-16TH December,2020, ISBN:9789390214051		December 15-16, 2020
		Short - Baseline Measurements of NavIC satellites for Relative positioning in vehicular environment	The international journal of analytical and modal analysis	PP. 262-268 Volume. XIII, Issue VII	June 2021
14	Ms. A.Parvathi	Industrial Protection System using Arduino and IoT	Journal of Communication Engineering and its Innovations	Journal of Volume-7, Issue-2	May-August, 2021
		IOT Based Smart Touch Switch Board System	International Journal of Management, Technology And Engineering	Volume XI, Issue VII	June-2021
15	Mr. K. Vinod Kumar	IOT Based Wireless Sensor Network for Precision Agriculture	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII, ISSN NO:0886-9367	June-2021
		VLSI Realization of BIST using a Modified Conventional Linear Feedback Shift Register for Low Power Applications	AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)		December 15-16, 2020
16	Ms. Sk Fowzia Sultana	The Influence of Ultrasound for the Protection of Animals on Highways Through Electronic	Machines, Mechanism and Robotics. Lecture Notes in Mechanical Engineering	ISBN 978-981-16-0549-9, pp 973-979	22,June2021

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		Circuits			
		Multimodal Medical Image Fusion Based on Intuitionistic Fuzzy Sets	IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE)	-	December 2020
17	Ms. K.Uma Maheswari	A Survey of Various Algorithms for Face Detection and Recognition	AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)		15-16 December 2020
		RFID based book management system using python programming	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII, PP:1615-1619	June-2021
18	T.Swetha	Vehicle Accident Detection System Using GPS, GSM, and Accelerometer with Arduino Uno	Journal of Remote Sensing GIS & Technology	Volume 7 Issue 2, pp.24-33	October 2020
		Touchscreen Ordering System for Restaurants Using LabVIEW	International Journal of Management, Technology And Engineering (IJMTE)	Volume 11 Issue 6, pp.494-500	November 2020
19	B.Praveena	A Low-Power High-Speed Approximate Precision Controllable Architecture of Multipliers	The International journal of analytical and experimental modal analysis	Volume XIII, Issue I, PP, 1007-1013	November-2020
		Estimation And Correction Of Carrier Frequency Offset To Improve The Performance Of OFDM Systems	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)	PP 33	October 15-16, 2020
20	P.Bindu Swetha	Performance Analysis of MIMO Techiques in LTE	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII, PP,1638-1651	November-2020
		Google Assistant Controlled Home Automation	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)	PP.12	october 15-16, 2020
21	Mr. K. Anil Kumar	Estimation of Transient CFO in OFDM system	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII, PP:1110-1115	June-2021
		DT-CWT Fusion on Region of Interest (ROI) for Distorted Video	AICTE Sponsored National E-Conference on Technology for Impactful	PG 34	December 15-16, 2020

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			and Sustainable Development of the Society(TISDS-2020)		
22	Mr. D.Imran	Python Based Multiple Face Detection System	Journal of Electronic Design Engineering	vol.6, no.2, pp.5-14	Jul-20
		Enhanced Approach of Non-Smart to Smart Devices using IOT Techniques	Journal of Switching Hub	vol.5, no.1, pp.7-14,	Jul-20
23	Ms. S.Ruksana Begum	A Review - Synthesis of Antenna Arrays Using Optimization Algorithms By reducing side lobe levels	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), 15TH-16TH December,2020, ISBN:9789390214051	vol.6, no.2, pp.5-14	Jul-20
		The Influence of Ultrasound for the Protection of Animals on Highways	Journal of Analog and Digital Communications	vol.5, no.1, pp.15-20	Jul-20
24	Ms. G.Mahalaxmi	Lung Cancer Detection – A Review	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)	pp.20	15-16 December 2020
		Liver Cancer Detection Using Various Image Segmentation Approaches: A Review	The IUP Journal of Telecommunications	pp.48-61	Jun-21
25	Ms. B. Eramma	A SURVEY ON COMPARATIVE STUDY OF CLASSIFICATION TECHNIQUES IN MACHINE LEARNING	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), 15TH-16TH December,2020, ISBN:9789390214051		
		Denoising and Dereverberation of Speech Using Kalman Filtering	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VI, PP,2455-2468	June-2021
26	Mr. S. Syed Shanawaz	Alzheimers Disease – A Review	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)	pp.30	15-16 December 2020

		Design of Free Space Communication Under Different Atmospheric Conditions	International Journal of Management, Technology And Engineering	Volume XI, Issue VII,	June 2021
27	S.Sofia Saba	Doubly-Selective Channel Estimation in FBMC-OQAM and OFDM Systems	Proceedings of the AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)	pp.5	December 15-16, 2020
		Development of Campus radio Transmission Station	The international journal of analytical and modal analysis	PP. 610-613 Volume. XIII, Issue VII	November 2020
28	Mr. C. V. Sathish Kumar	Total Electron Content Estimation and Comparison Using Multi-GNSS (GPS, GLONASS, GALILEO, BeiDou) Constellation	IEEE Intelligent Technologies (CONIT-2021)	pp. 1-6	June 2021
		Design and Implementation of Sequential Circuits in FinFET Technology	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII,	June-2021
29	Ms. S. Harika	A Survey on Corono Virus	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), 15TH-16TH December,2020, ISBN:9789390214051		15-16 December 2020
		Active Noise Control for PVC Duct Using Robust Feedback Neutralization FxLMS Approach	Journal of Control, Automation and Electrical Systems (Springer)	Vol. 2, PP.1-15	2021 Jun
30	Ms. M. Rachana	Investigation of Carrier- to-Noise ratio impact on GDOP in Multi-GNSS Environment	Proceedings of the AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)	pp.3	December 15-16, 2020
		Design and Implementation of Resource Efficient Radix-16 Cordic Rotator Based FFT Algorithm on FPGA	The International journal of analytical and experimental modal analysis	Volume XIII, Issue VII,	June-2021
31	Ms. P. Ipshitha	A Review on Detection of Lung Cancer	AICTE Sponsored National e-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), 15TH-16TH December,2020,		15-16 December 2020

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			ISBN:9789390214051		
		Human Speed Detection	The International journal of analytical and experimental modal analysis (TIJAEMA)	Volume-XIII, Issue VI, ISSN No. 0886-9367, pp 2830-2834.	June 2021
32	Ms. P. Mary Swetha	Investigation of GPS-TEC Inconsistency and Correlation with SSN, Solar Flux (F10.7 cm) and Ap-index during Low and High Solar Activity Periods (2008 and 2014) Over Indian Equatorial Low Latitude Region	IEEE Intelligent Technologies (CONIT-2021)	pp.1-10	June 2021
		Estimation of Moving Vehicles Precise Velocity Using Satellite Signals	The international journal of analytical and modal analysis	PP. 619-623 Volume. XIII, Issue VII	May 2021
33	Ms. N. Hari Priya	Dynamic Face Recognition Using Viola Jones Algorithm	The International journal of analytical and experimental modal analysis (TIJAEMA)	Volume XIII, Issue VII, ISSN NO:0886-9367, pp 1935-1939	May 2021
		Power and Area Constrained Crosstalk Elimination Circuit for High-Speed VLSI Interconnects	Proceedings of the AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)	pp.5	December 15-16, 2020
34	Mrs A.Sreevani	Design and performance analysis of photonic crystal based all-optical 2 x 1 multiplexer	Microelectronics	Vol.112, pp. 1-6	April 2021
		Modelling and design of all-optical NAND gate using metal-insulator-metal (MIM) waveguides based Mach-Zehnder Interferometers	Optical and Quantum Electronics		27-May-21

f. Details of the faculty who attended Workshops/STTPs/FDPs:


S.No	Name of the Faculty	Title of FDP/Workshop/STTP/Seminar/Webinar/Training Activity with Duration, Date and Organization
1	Dr T TIRUPAL	Participated in a two week online Faculty Development Program on "Global Navigation Satellite Systems" during 28th June to 9th July 2021 organized by department of ECE, IIITDM, Kurnool in association with E&ICT Academy, NIT Waranagal sponsored by MeitY. Participated in a one week online faculty development program on "Quantum Computing" during 25-31 January 2021 organized by E&ICT Academy, NIT Warangal and Indian Institute of Information Technology Design and Manufacturing, Kurnool, India.
2	Dr N RAMAMURTHY	Participated in one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College


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		of Engineering and Technology, Kurnool.
		Attended a four day online webinar series on "Applications of Satellite Navigation & NAVIC for the Common Man" from 6-9 February 2021 organized by Indian Space Industries Exhibitors.
3	Dr SANDIP SWARNAKAR	Participated in a one week online STTP on "Practical Exposure on Machine Learning and Data Science" during 26 April to 1st May 2021 sponsored by AICTE, organized by Department of ECE, G. Pulla Reddy Engineering College, Kurnool.
		Participated in a ten days online short-term course on "Advancements in Signal Processing and Artificial Intelligence in Healthcare (ASPAIH)" during 15-24 February 2021 organized by Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, Chennai, India.
4	Dr KCT SWAMY	Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-I" during 10 May to 15 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu.
		Participated in a Five Day Bootcamp on "App Development using MIT App Inventor" from 28th July to 1st August 2020 Organized by RIT IEEE Student branch in association with MadBlocks Technologies Pvt Ltd
5	Dr.D.Raja Sekhar	Participated in a one week online STTP on "Practical Exposure on Machine Learning and Data Science" during 26 April to 1st May 2021 sponsored by AICTE, organized by Department of ECE, G. Pulla Reddy Engineering College, Kurnool.
		Participated in a Five Day Bootcamp on "App Development using MIT App Inventor" from 28th July to 1st August 2020 Organized by RIT IEEE Student branch in association with MadBlocks Technologies Pvt Ltd
5	Mr G RAMARAO (Ph.D)	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
		Participated and successfully completed APSSDC online FDP on "Python Programming" from 13-25 July 2020.
6	Mr B OBULESU (Ph.D)	Completed "Microchip Academy Educator Training Certificate" from 14th Sep to 18th Sep 2020 at G.Pullaiah College of Engineering and Technology, Kurnool.
		Participated and successfully completed APSSDC online FDP on "Python Programming" from 13-25 July 2020.
9	Mr P VISHNU KUMAR	Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-I" during 10 May to 15 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu.
		Participated in a Five Day Bootcamp on "App Development using MIT App Inventor" from 28th July to 1st August 2020 Organized by RIT IEEE Student branch in association with MadBlocks Technologies Pvt Ltd
10	Mr E UPENDRANATH GOWD	Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-I" during 10 May to 15 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu.
		Five days FDP on "Advances in Next Generation Wireless Communications & Networks", 27th-31st July, 2020
11	Ms M A FARIDA	Completed Cisco networking Academy "CCNA Instructor training " from 21 June - 18 July 2020
		Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
12	Ms A PARVATHI	Five days FDP on "Advances in Next Generation Wireless Communications &

		Networks", 27th-31st July, 2020
		Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
13	Ms S FOWZIA SULTANA	Participated a FDP on applied IoT with Node MCU, Raspberry Pi and Cloud configuration 21 to 25 July 2020. Participated FDP on "MSP 430, Matlab tools and it's application" from 28 to 30 July 2020.
17	Mrs B ERAMMA	Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-II" during 24 May to 29 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu. Participated a FDP on applied IoT with Node MCU, Raspberry Pi and Cloud configuration 21 to 25 July 2020.
18	Mr S SHANAWAZ	Participated in a three day online faculty development program on "Role of Communication Engineering in 5G Technologies" during 27-29 November 2020 organized by St.Martin's Engineering College, Secunderabad. Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
19	Ms S HARIKA	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
20	Ms G MAHALAXMI	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
21	Mr CV SATHISH KUMAR	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
22	Ms M RACHANA	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
23	Ms P IPSHITHA	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
24	Mr D IMRAN	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
25	Ms P MARY SWETHA	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
26	Ms N HARI PRIYA	Participated in a one week FDP on "Statistics for Artificial Intelligence & Machine Learning" from 02-07 November 2020 in the department of ECE, G.Pullaiah College of Engineering and Technology, Kurnool.
27	Mrs A SREEVANI	Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-II" during 24 May to 29 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu. Participated in a one week online STTP on "Machine Learning on Recent Trends and Applications Phase-I" during 10 May to 15 May 2021 sponsored by AICTE, organized by Department of ECE, SRIT, Ananthapuramu.

g. Details of the faculty who organized Conferences/Workshops/STTPs/FDPs:


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S.No.	Name of the faculty	Name of the conference	Duration	No. of participants
1	Dr T.TIRUPAL	Statistics for Artificial Intelligence & Machine Learning	02-07 November 2020	120
2	Dr KCT Swamy	Technology for Impactful and Sustainable Development of the Society (TISDS-2020)	15-16 December 2020	90

h. Details of books/book chapters authored by the faculty:

S.No	NAME	TITLE OF THE BOOK	PUBLISHER	ISBN NO.	Date of Publication
1.	Dr T TIRUPAL	Electronic Devices and Circuits	Mantech Publications	978-81-948050-2-1	February 2021
2.	Mrs P BINDU SWETHA	Innovative Teaching and Learning process during COVID-19 – Book 1 (Editor)	IOR International Press	978-93-89631-64-7	14-11-2020
3.	Mrs P BINDU SWETHA	Innovative Teaching and Learning process during COVID-19 – Book 2 (Editor)	IOR International Press	978-93-89631-66-1	14-11-2020

i. Details of Patents published/awarded and product development, if any:

S.No	NAME	TITLE OF THE PATENT	PATENT NUMBER	Year of Publication
1.	Dr T TIRUPAL Dr D RAJASEKHAR Dr V VIJAYA KISHORE Mrs S FOWZIA SULTANA Mr B OBULESU	Credit/Debit Card Fraud Prevention: Intelligent Process To Prevent Credit/ Debit Card Fraud Using Machine Learning	202041035253	11-09-2020
2.	Dr V VIJAYA KISHORE	A Novel Method and System for Human Action Recognition using Difference Dept Motion Map and Convolution Neural Networks	201941054742	28-08-2020

j. Details of fabricated projects, if any that leads to product development in future: **NIL**

k. Details of revenue generated through consultancy: **NIL**

l. Number of guest lectures delivered / acted as reviewer or editorial committee member or resource person, etc.


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Dr T.Tirupal delivered GATE lectures

Dr T.Tirupal acted as a Reviewer for Critical Reviews in Biomedical Engineering, a **SCOPUS** indexed international journal

- m. Number of faculty who completed certification courses:
 Total Faculty are: **25**

4. Other Information:

- a. Are the minutes of the meeting of the Departmental Committee maintained : YES
- b. Number of MoUs / collaborations signed with organization/institution: YES
- c. How many National/ International acclaimed experts visited the department (Date, Name of the Expert, Designation, Organization and Purpose):
- d. Details of new facilities added during 2020-21:

Established IoT Lab and procured the following Equipment

ARDUINO UNO + CABLE	17	5950.00
RFID READER RC522 + TAGS	32	3680.00
BREAD BOARD MINI	32	1280.00
RGB LED	40	156.00
LM35 SENSOR	32	1664.00
RESISTOR- 330 Ω + 10 K Ω	160	40.00
PUSH BUTTON	40	60.00
POTENTIOMETER- 10 K Ω	32	320.00
LDR SENSOR	32	96.00
DHT11 SENSOR	32	2240.00
LCD 16X2	32	2560.00
MALE BERG STRIP	20	40.00
16x2 LCD BREAKOUT BOARD	32	4800.00
JUMPER WIRE SET (F-F, M-F, M-M)	5	1500.00

- e. Details of newsletters / magazines etc published:
 News Letter is being published for every semester in Academic year
 Magazine is being published four issues for every Academic year
- f. Future plans of the department:
 To establish advanced Laboratories like Signal & Image Processing.
 To enhance Cadence Lab to PG bundle.
 To get Funding projects from various Funding Agencies like SERB, AICTE, ISRO.
 To train the students in getting 100% pass percentage.
 To train the students in getting 100% placements.
 To Conduct advanced workshops on latest technologies like Artificial Intelligence, Data Science and Machine Learning.

G. Prasad
PRINCIPAL

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5. SWOC Analysis:

a. Strengths:

1. Qualified, experienced and dedicated teaching faculty with good retention ratio.
2. Laboratories with State of the Art equipment and modern software tools.
3. Faculty contributing in design development and implementation of curriculum in Board of Studies of an Affiliating University.
4. Effective use of ICT in teaching learning process.
5. Student centric functioning with mentoring, counselling through teachers and Effective academic monitoring.
6. Active NSS Unit.
7. Professional Society Chapters in the department.
8. Safe and Secured Environment for girl students.

b. Weakness:

1. Less Industry – Institute interaction.
2. Moderate Placement ratio.
3. Institute lacks in revenue generation.
4. Less student pursuing higher education.
5. Involvement of Alumni is less.

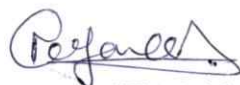
c. Opportunities:

1. To arrange more number of FDPs /STTPS/ National Level /International Level conferences.
2. To arrange specialized Training programs by the faculty.
3. Scope for interdisciplinary and sponsored projects.

d. Challenges:

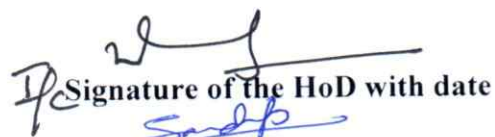
1. Strengthen Industry-Department Interaction.
2. More placements in core companies.
3. Encouraging students for competitive examinations and higher studies.
4. Networking and strengthening relationship with stakeholders.
5. More focus on Industrial training for faculty and students.

6. Suggestions / Recommendations of the Committee:



Signature of EAA Member – 1

Designation: Assistant Professor
Address: GPCET
Mobile Number: 9966292597
e-mail: ganeshgpcet@gmail.com


Signature of the HoD with date

Signature of EAA Member – 2

Designation: Professor
Address: GPCET
Mobile Number: 9045137227
e-mail: drsandipece@gpcet.ac.in


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