

Part-B
(2019-20)

CRITERION I – CURRICULAR ASPECTS			
1.1 Curriculum Design and Development			
1.1.1 Programmes for which syllabus revision was carried out during the Academic year			
Name of programme	Programme Code	Year	Dates of revision
B.Tech ECE	04	R17 V & VI Semester	07.07.2018
		R18 III & IV Semester	29.01.2019
1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
B.Tech ECE - 04	2002	Linear and Digital IC Applications - A45PC2	01.07.2019
		Digital Communications - A45PC3	01.07.2019
		Digital Design Using Verilog HDL - A45PE6-I	01.07.2019
		Microprocessors and Microcontrollers - A46PC5	09.12.2019
		Digital Signal Processing - A46PC6	09.12.2019
		Digital System Design - A46PE2-III	09.12.2019
1.2 Academic Flexibility			
1.2.1 New programmes/courses introduced during the Academic year			
Programme/Course	Date of introduction		
B.Tech ECE/ Information Security	01.07.2019		
B.Tech ECE/ Design of Fault Tolerant Systems	01.07.2019		
B.Tech ECE/ Spread Spectrum Communications	09.12.2019		
B.Tech ECE/ Digital System Design	09.12.2019		
B.Tech ECE/ RF Circuit Design	09.12.2019		
B.Tech ECE/ Multimedia Signal Coding	09.12.2019		
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.			
Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System
B.Tech ECE	Digital Design Using Verilog HDL - A45PE6-I		01.07.2019
B.Tech ECE	Information Security - A45PE6-II		01.07.2019
B.Tech ECE	Design of Fault Tolerant Systems - A45PE6-III		01.07.2019
B.Tech ECE	Computer Networks - EC721PE		15.07.2019
	Telecommunication Switching Systems and Networks - EC722PE		
	RF Circuit Design - EC723PE		
	Artificial Neural Networks - EC724PE		
B.Tech ECE	Cellular and Mobile Communications - EC731PE Electronics Measurements and Instrumentation - EC732PE		15.07.2019

	EMI and EMC - EC733PE Object Oriented Programming through JAVA - EC734PE			
B.Tech ECE	Optimization Techniques - EC741PE Embedded System Design - EC742PE Satellite Communications - EC743PE Network Security and Cryptography - EC744PE		15.07.2019	
B.Tech ECE	Digital Image Processing - A46PE2-I		09.12.2019	
B.Tech ECE	Spread Spectrum Communications - A46PE2-II		09.12.2019	
B.Tech ECE	Digital System Design - A46PE2-III		09.12.2019	
B.Tech ECE	VLSI Design - A46PE3-I		09.12.2019	
B.Tech ECE	Multimedia Signal Coding - A46PE3-II		09.12.2019	
B.Tech ECE	Optical Communications - A46PE3-III		09.12.2019	
B.Tech ECE	Optical Communications - EC851PE Wireless Communications and Networks - EC852PE Design of Fault Tolerant Systems - EC853PE Bio Medical Instrumentation - EC854PE		09.12.2019	
B.Tech ECE	Radar Systems - EC861PE Coding Theory and Techniques - EC862PE Database Management Systems - EC863PE Global Positioning System - EC864PE		09.12.2019	
Already adopted (mention the year) 2019				
1.3 Curriculum Enrichment				
1.3.1 Value-added courses imparting transferable and life skills offered during the year				
Value added courses	Date of introduction	Number of students enrolled		
SWAYAM - NPTEL	July - October	134+74+160		
SWAYAM - NPTEL	Jan - April	117+134		
1.3.2 Field Projects / Internships under taken during the year				
Project/Programme Title	No. of students enrolled for Field Projects / Internships			
B.Tech ECE	233 (2020-21)			
1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	-	Yes	-	Yes
1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)				
The Internal Quality Assurance Cell is the primary system that takes care of quality in the college. The IQAC conducts number of evaluations that have a specific focus on issues and concerns. Every semester the students give their feedback of the staff. This helps the staff and management to constantly improve their methodology of imparting the knowledge to the students.				
CRITERION II - TEACHING-LEARNING AND EVALUATION				
2.1 Student Enrolment and Profile				
2.1.1 Demand Ratio during the year				

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
B.Tech ECE (2019-20)	168+72	90	190

2.2 Catering to Student Diversity

2.2.1 Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	240 (ECE)	-	50 (ECE)	-	-

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
50	50	LCD	4	4	NPTEL, SWAYAM MOOCS

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring programme is conducting in our college. It helps the students to strengthen their varied capabilities and to build an interpersonal relationship between the teachers and students. Each teacher is assigned with the task of mentoring 20 students. All mentors keep a confidential data sheet about their students, "mentors assessment of students" which records a report of mentoring done by the teachers. These reports are periodically evaluated by a team of teachers selected from each department. The mentoring programme is monitored by a committee consisting of the Principal, Dean Academic and experienced faculty.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
2019-20 193+251+239+220 = 903 (ECE)	50	1:19

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
07 in 2019-20	07	-	07	-

2.4.2 Honours and recognitions received by teachers*(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)*

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mrs. K. Sukanya	Associate Professor	Topper & Elite+Silver in Digital Circuits
2019	Mrs. G. Anitha Chowdary	Associate Professor	Elite+Silver in Digital Circuits
2019	Mrs. A. Lavanya	Assistant Professor	Elite+Silver in Digital Circuits
2019	Mrs. G. Anitha Chowdary	Associate Professor	Topper & Elite+Gold in Signals & System

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year-end examination
B.Tech, ECE	04	III-I R-17 II-I R-18		06.02.2020

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

***Do not include re-evaluation/ re-totalling**

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil		

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://tkrcet.ac.in/>

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
04	B. TECH. ECE	220	154	70%

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

3.1.1 The institution provides seed money to its teachers for research,
Yes..... No. if yes give details

Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
-	-	-	-

3.1.2 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National				
International				

3.2 Resource Mobilization for Research

3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects				
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects (other than compulsory by the College)				
International Projects				
Any other(Specify)				
Total				

3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years

3.3 Innovation Ecosystem

3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Embedded System Design and IoT using CMCU and CC3100 Booster Pack	ECE	10.02.2020 to 12.02.2020
Awareness program on industry oriented mini project on Embedded Systems	ECE	29.06.2020 to 01.07.2020

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year						
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category		
3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year						
Incubation Centre	Name		Sponsored by			
Name of the Start-up	Nature of Start-up		Date of commencement			
3.4 Research Publications and Awards						
3.4.1 Ph. Ds awarded during the year						
Name of the Department		No. of Ph. Ds Awarded				
ECE		3				
3.4.2 Research Publications in the Journals notified on UGC website during the year						
	Department	No. of Publication	Average Impact Factor, if any			
National	ECE					
International 2019-20	ECE	29	5			
3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year						
Department		No. of publications				
ECE 2019-20		29				
3.4.4 Patents published/awarded during the year						
Patent Details	Patent status Published/ Filed	Patent Number	Date of Award			
3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations

Dimensionality Reduction Techniques For Hyperspectral Image using Deep Learning	K SUDHA RANI	IJITEE-SCOPUS	2019			
Modified Euler Frobenius Half Band Polynomial Filter Based Dual Tree complex wavelet transform and metaheuristic optimization Algorithms for Image Denoising with artificial neural networks	P.VENKATA LAVANYA	IJAST-SCOPUS	2020			
Denoising Images by Dual Tree Complex wavelet Transform combined with Metaheuristic Optimization Algorithms	P.VENKATA LAVANYA	IJITEE-SCOPUS	2020			
Gestation Age Determination through Optimized Fuzzy Logic Based Edge Detection Algorithm in Fetal Ultrasound Images	J SUNITHA KUMARI	IJATCSE SCOPUS	2020			
Design of Kogge Stone Adder for High Speed Multipliers	SATYANARA YANA M	IJRDT JOURNAL	2020			
Digital Image Watermarking in Spatial Domain	M GNANESH GOUD	JETIR	2020			

3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :						
No. of Faculty	International level		National level		State level	Local level
Attended Seminars/ Workshops			129 (2019-20)			
Conferences/ Presented papers						
FDP			111 (2019-20)			
3.5 Consultancy						
3.5.1 Revenue generated from Consultancy during the year						
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency		Revenue generated (amount in rupees)		
3.5.2 Revenue generated from Corporate Training by the institution during the year						
Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)		Number of trainees	
3.6 Extension Activities						
3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year						
Title of the Activities	Organising unit/ agency/ collaborating agency		Number of teachers co-ordinated in such activities		Number of students participated in such activities	
1.Yoga day Celebration	NSS Unit, TKRCET & in association with SAHAJA YOGA		2		400	
2. On Teachers day - "Best Message contest"	NSS Unit, TKRCET & in association with IBS(ICFAI BUSINESS SCHOOL) ICFAI GROUP		2		20	
3. ESSAY WRITING COMPETITION on "ALL LOVE IS EXPANSION- ALL SELFISHNESS IS CONTRACTION"	NSS Unit, TKRCET		2		60	

4. Awareness on "NO PLASTIC"	NSS Unit, TKRCET	2	100
5. Maintenance of Harvesting pits in the college	NSS Unit, TKRCET	2	50
6. Career Guidance Program	ABACUS (Overseas)	2	10
7. A CLEAN AND GREEN programme	NSS Unit, TKRCET	2	100
8. A TREE PLANTATION PROGRAMME	NSS Unit, TKRCET	2	100
9. Elocution Competition on "KILL CANCER"	NSS Unit, JNTUH & in association with ISKON	2	100
10. Awareness Programme on "REDUCING CRIME"	NSS Unit, TKRCET & in association with ASEZ ORGANISATION, South Korea	2	100
11. BLOOD DONATION CAMP	Mechanical Department, TKRCET in association with RED CROSS Society.	2	70
12. VIVEK BAND - BE GOOD DO GOOD	SAMSKRITHI FOUNDATION at Ramakrishna Matt, Hyderabad	2	100
13. BLOOD DONATION CAMP	NSS Unit, TKRCET & in association with DURGABAI DESHMUKH HOSPITAL	2	166
14. USEFUL THINGS from WASTE MATERIALS	NSS Unit, TKRCET & in association with VIDYA KALA MANDIR	2	100
15. ROAD SAFETY	NSS Unit, TKRCET & in association with Traffic Training Institute (TTI), Rachakonda, Hyderabad	2	400

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited

3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swatch Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers co-ordinated such activities	Number of students participated in such activities
1. Awareness on "NO PLASTIC"	NSS Unit, TKRCET	Cleaning	2	100
2. A CLEAN AND GREEN programme	NSS Unit, TKRCET	Plant trees	2	20
3. Awareness Programme on "REDUCING CRIME"	NSS Unit, TKRCET & in association with ASEZ ORGANISATION, South Korea	Reducing Crime	2	150

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration

3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
Training	DRDO,RCIE, CIL,BEL		3 weeks	55

3.7.3 MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Electronics & ICT Academy	04/09/2017	To improve the Quality of Education	5
Matchwell technology solutions	17/07/2018	Design and implementation of projects	64

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added

Campus area	10 acres	
Class rooms	12	
Laboratories	12	
Seminar Halls	01	
Classrooms with LCD facilities	02	
Classrooms with Wi-Fi/ LAN	01	
Seminar Halls with ICT facilities	02	
Video Centre	00	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		
Value of the equipment purchased during the year (Rs. in Lakhs)		
Others		

4.2 Library as a Learning Resource

4.2.1 Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation

4.2.1 Library Services: ECE Department

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	382					
Reference Books	100					
e-Books	182					
Journals	24					
e-Journals	44					
Digital Database						
CD & Video						
Library automation						
Weeding (Hard & Soft)						
Others (specify)	40					

4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computer s	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	180	3						50	

Added									
Total									

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

.....100... MBPS /GBPS

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution			
Financial support from other sources			
a) National			
b) International			

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Coaching	Sep, 2019	40	Faculty

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed

2019-20	GATE, GRE, IELTS	100	100	18	45
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5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
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5.2 Student Progression

5.2.1 Details of campus placement during the year

Name of Organizations Visited	On Campus		Off Campus
	Number of Students Participated	Number of Students Placed	Number of Students Placed
11	154	45	5

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019-20	28	TKRCET	ECE	Various Institutions	Various Programmes

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET		
SET		
SLET		
GATE	2	
GMAT		
CAT	1	
GRE	4	
TOFEL		
Civil Services		
State Government Services		
Any Other (IELTS,PGCET,ICET,MSIT)	10	

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

5.3.2 No. of registered Alumni:

5.3.3 Alumni contribution during the year (in Rupees) :

5.3.4 Meetings/activities organized by Alumni Association :

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

6.1.2 Does the institution have a Management Information System (MIS)?
Yes/No/Partial:

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

- ❖ Curriculum Development
- ❖ Teaching and Learning
- ❖ Examination and Evaluation
- ❖ Research and Development
- ❖ Library, ICT and Physical Infrastructure / Instrumentation
- ❖ Human Resource Management
- ❖ Industry Interaction / Collaboration
- ❖ Admission of Students

6.2.2 : Implementation of e-governance in areas of operations:

- ❖ Planning and Development
- ❖ Administration
- ❖ Finance and Accounts
- ❖ Student Admission and Support
- ❖ Examination

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019-20	Y.Priyanka	Advanced CMOS VLSI	TKRES (E&ICT Academy, NITW)	Rs.2500/-
2019-20	A.Deepika	Advanced CMOS VLSI	TKRES (E&ICT Academy, NITW)	Rs.2500/-
2019-20	A.Vikas	Advanced CMOS VLSI	TKRES (E&ICT Academy, NITW)	Rs.2500/-
2019-20	M.Vijayababu	Advanced CMOS VLSI	TKRES (E&ICT Academy, NITW)	Rs.2500/-
2019-20	A.Teja	Advanced CMOS VLSI	TKRES (E&ICT Academy, NITW)	Rs.2500/-

6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019-20	Latest advances in communications/ 5G technology	Latest advances in communications/5G technology	19-9-2019 to 20-09-2019	39	4

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from - to)
PEDAGOGICAL TRAINING		
VLSI IC design flow	6	9 - 13th DEC 2019
Analog VLSI Design	6	28th may-30th may, 2020
Research Opportunities in Image Processing And Machine Learning	2	02-12-2019 TO 07-12-2019
Analog IC Design - Hands on Practice using Cadence Design Flow	7	29 jun to 3 july 2020
DATA SCIENCE APPLIED TO INDUSTRIES	2	22nd-24th April,2019
Sensor Technology	1	nov,2019
Artificial Intelligence using Python	2	01.10.2020. to 05.10.2020
Neural Networks and Deep Learning Using Python	1	14th to 19th, 2020
MATERIALS: Recent Trends & Engineering Applications	1	1st june -5th june, 2020
Effective Technical Report Writing Using LaTeX	1	2ND -7TH JUNE 2020
Sustainable development with Green Technology	1	8TH-9TH JUNE 2020
PreCovid, Covid and PostCovid times	1	11TH- 13TH JUNE 2020

Future Advancements and Applications of Internet of Things	1	12TH-14TH JUNE 2020
Cyber Forensics and Cyber Security	1	15TH-19TH JUNE 2020
Virtual Hands-on Training Program on Python for Data Analysis	1	1ST -5TH JUNE 2020
Machine Learning with Python (Hands-on)	1	15TH - 20TH JUNE 2020
Smart Applications Developments using IoT	1	17th-19th june 2020)
Digital Image Processing with Research Technology	1	15TH-19TH JUNE 2020
Cutting Edge Technological Development in Information and Communication Engineering	1	22nd -26th june 2020
Cyber Security	1	19TH - 24TH JUNE 2020
Advanced Data Science and its Applications	1	22ND -26TH JUNE 2020
SCILAB AND NGSPICE	1	22Nd -26TH JUNE 2020
Machine Learning & Artificial intelligence	1	2nd -7th december 2019
Wireless sensor networks and internet of things	1	12th -14th december 2019
FDP on Designing with ZYNQ-SOC and its Applications	1	16-10-2019 to 18-10-2019
iot and artificial intelligence applications	1	20th june 2020
artificial intelligence and its applications	1	1st june-6th june,2020
Neural networks and deep learning using phyton	1	25th may-30th may, 2020)
scilab and NG spice	1	1st june -5th june, 2020)
SCILAB-an open source substitute for MATLAB	1	22 -26 june, 2020
recent trends in vlsi design	1	22nd -26th june 2020)
advance research in academic using LABView	1	16th -21th december 2019)
smart applications development using IOT-Arduino	1	17th-19th june 2020)
Analog IC Design - Hands on Practice using Cadence Design Flow	1	22nd-24th April,2019
DESIGN OF ZYNQ SOC AND ITS APPLICATIONS	1	16-18th Oct, 2019
VLSI IC DESIGN FLOW TECHNOLOGIES FOR HEALTH CARE	1	28th - 20th may 2020
PYTHON FOR DATA ANALYSIS	1	8th - 10th June 2020
RESEARCH TRENDS IN IMAGE PROCESSING	1	15th -19th june 2020
RECENT TRENDS IN COMMUNICATION TECHNOLOGY	1	15th -19th june 2020
Embedded Sytem and IoT using TIVA C launchpad and Cc3100Bxl	1	10th -12th February 2020
Esim Technology	1	Jan-20
Deep Learning and Its Applications	1	15-06 -2020 to 20-06-2020
Desruptive Technologies in ECE	1	22-27 june 2020
Neural Networks & Deep Learning Using Python	1	1-5th JUNE 2020
Basic Matlab Programming	1	14-18 JULY 2020
STTP On Challenges & Research Opportunities in The Signal Processing	1	20-24 JULY 2020
Recent Advancements in Image Processing & IOT	1	3-5th june 2020
Wireless Communications and Mobile Technologies	1	06-07-2020 to 10-07-2020
Introduction to Renewable Energy Sources	1	20-06-2020 to 24-06-2020
Recent Trends in Communication technology	1	15-06-2020 to 19-06-2020
Technologies for Healthcare	1	08-06-2020 to 10-06-2020
Artificial Intelligence	1	22-05-2020 to 26-05-2020
Artificial Intelligence (AICTE SPONSORED)	2	02-12-2019 to 06-12-2020

Research Opportunities in Image Processing and Machine Learning	1	29th June to 03rd July 2020
Introduction to Renewable Energy Sources	1	20-06-2020 to 24-06-2020
Artificial Intelligence	1	22.05.2020 to 26.05.2020
Python Programming	1	15.05.2020 to 18.05.2020
Artificial Intelligence	1	02.12.2019 to 06.12.2019
Research Opportunities in Image Processing and Machine Learning	1	29-06-2020 TO 03-07-2020
Introduction to Renewable Energy Sources	1	20-06-2020 to 24-06-2020
Recent Trends in Communication technology	1	15-06-2020 TO 19-06-2020
Technologies for Healthcare	1	08-06-2020 TO 10-06-2020
Artificial Intelligence	1	22-05-2020 TO 26-05-2020
Python Programming	1	15-05-2020 TO 18-05-2020
Pedagogical Training	1	09-12-2019 TO 13-12-2019
A Perspective View On Artificial Intelligence	1	22nd Oct
Industry 4.0- Transforming Industries And Digital Revolution	1	23rd Oct
Artificial Intelligence	1	14th -18th September
Internet Of Things	1	21st - 25th sep
Research Opportunities in Image Processing and Machine Learning	1	29th June 2020
Artificial Intelligence	1	22.05.2020 to 26-05-2020
Embedded Sytem and IoT using TIVA C launchpad and Cc3100Bxl	1	10th -12th February 2020
INTERNET OF THINGS	1	2nd - 7th JAN 2020
eSim Workshop	1	1st - 5th JUNE 2020
Neural network and deep learning using python	1	25th May 2020 to 30th May 2020
Machine Learning & Artificial intelligence	1	2nd to 7th , Dec 2019
Wireless sensor networks and internet of things	1	12th to 14th ,Dec 2019
Analog integrated circuit design	1	22nd - 23rd ,Nov 2019
Internet of things	1	2nd - 7th JAN 2020
Disruptive technologies in electronics & communications	1	22nd - 27th JUNE 2020
Research opportunities in image processing and machine learning	1	29th JUNE - 3rd JULY 2020
Future nano electronic devices & circuits	1	06th -10th JULY 2020
Artificial intelligence and machine learning	1	13th-17th JULY2020
Practice engineering with graphical system design (NI labview) and NI academic products	1	13th - 16th JULY 2020
Short term training program (STTP) on challenges & research opportunities	1	20th - 24th JULY 2020
Simulation and modeling of data communication networks	1	27th - 31st JULY 2020
Trends and advances in cryptography	1	24th - 28th AUGUST 2020
Internet of things	1	2nd - 7th JAN 2020
Disruptive technologies in electronics & communications	1	22nd - 27th JUNE 2020
Future nano electronic devices & circuits	1	06th -10th JULY 2020
Practice engineering with graphical system design (NI	1	13TH -16TH JULY 2020

labview) and NI academic products				
Internet of things	1	2nd - 7th JAN 2020		
Neural network and deep learning using python	1	1st - 5th JUNE 2020		
eSim Workshop	1	25th to 30th May 2020		
Python 3.4.3	1	10TH -15TH JUNE 2020		
cyber forensics	1	21st May2020		
Microstrip antennas for advanced wireless communications	1	15-16th May 2020		
Cisco Packet Tracer	1	23rd May 2020		
Artificial intelligence	1	22nd -26th May 2020		
Neural networks and Deep learning using Python	1	1st - 5th June 2020		
Industry oriented projectwork on VLSI	1	6th -8th July 2020		
Upgrading Teaching Skills	1	23rd May 2020		
6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):				
Teaching		Non-teaching		
Permanent	Fulltime	Permanent	Fulltime	
50	50	5	5	
6.3.5 Welfare schemes for				
Teaching		Health Check-up Camp by Dr.T.Anitha, ICON Hospital		
Non teaching		Health Check-up Camp by Dr.T.Anitha, ICON Hospital		
Students				
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)				
Name of the non government funding agencies/ individuals		Funds/ Grants received in Rs.	Purpose	
TKRES		2,00,000/-	Development and Maintenance of Labs	
6.4.2 Total corpus fund generated				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	Other Engg college	YES	HOD &IQAC Members
Administrative				
6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
Parent –Teacher meeting is conducted once in a semester				

6.5.3 Development programmes for support staff (at least three)

Faculty Development Programme ,Skill Development programme

6.5.4 Post Accreditation initiative(s) (mention at least three)

6.5.5

- a. Submission of Data for AISHE portal : Yes
- b. Participation in NIRF : Yes
- c. ISO Certification : No
- d. NBA or any other quality audit : Yes

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Conducting activity	Duration (from-----to-----)	Number of participants
2019-20	Induction Programme	Awareness Programmes	05.08.2019 to 18.08.2019	159

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities****7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)**

Title of the programme	Period (from-to)	Participants	
		Female	Male
Yoga day Celebration	21/07/2019	220	180
Awareness on “NO PLASTIC”	13/09/2019	25	20
A CLEAN AND GREEN programme	24/09/2019	30	25

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources**7.1.3 Differently abled (Divyangjan) friendliness**

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	10 (Institution)
Provision for lift	Yes	6
Ramp/ Rails	Yes	5
Braille Software/facilities	No	
Rest Rooms	Yes	30
Scribes for examination	Yes	5
Special skill development for differently abled students	Yes	5 (Institution)
Any other similar facility		

7.1.4 Inclusion and Situatedness**Enlist most important initiatives taken to address locational advantages and disadvantages during the year**

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff

7.1.5 Human Values and Professional Ethics**Code of conduct (handbooks) for various stakeholders**

Title	Date of Publication	Follow up (maximum 100 words each)

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

Plantation programme was organized in the college campus and 50 plants were planted. “Plastic free zone” awareness programme was organized to make campus eco – friendly.

7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

8. Future Plans of action for next academic year (500 words)

1. Enhance the number of smart class rooms in the department.
2. Provide standard facilities for value Education.
3. Impart technical and professional education to increase employ-ability and economical development.
4. Organize more number of workshops and seminars.
5. Awareness programme on Entrepreneurship for Students.
6. To achieve high standards in Research and Development.
7. Arrangement of internships for III B.Tech students.
8. Signing of more MOUs with industry

Signature of the Coordinators, IQAC



Dr. P. Gayathri

Assoc. Professor, ECE



Mrs. K. Sukanya

Assoc. Professor, ECE

Signature of the Chairperson, IQAC



Dr. D. Nageshwar Rao

Professor & HoD, ECE

Abbreviations:

CAS	-	Career Advancement Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
