DEPARTMENT PERFORMANCE INDEX-ANITS (DPI-A)
Modified w.e.f 2020-21

Name of the department: Information Technology

SNo	Criteria	Max. Marks	Marks Scored
1	Teaching – Learning Processes	300	276.58
2	Student's Performance	200	154.73
3	Faculty contributions	250	105.30
4	Co-curricular activities	100	66.05
5	Students support systems	85	72
6	Continuous improvement	40	40
7	Best Practices	25	25
	Total	1000	738.66

1. Improve quality of publications with high impact factor
2. Improve consultancy and Research funding projects
3. Establish industry Supported labs
4. To encourage co-curricular activities
5. Excellent Teaching and learning process
6. Encourage faculty in participating FDP'S

8/1/22

(External Auditor)

Availability of ATR and Impact analysis / implementation on comments of previous NBA committee/ IA remarks: (Copy may be provided by the departments)

1. Teaching Learning Processes: (Max – 300)

S.No	Description	Max marks	Marks awarded	Remarks
1.1	**Initiative for improvement of quality in teaching and learning (95)**			
1.1.1	Availability of Academic Calendar of the department based on Institute's academic calendar and its effective compliance / implementation and adherence to schedule (availability – 3, implementation – 2)	5	5	Effective
1.1.2 (a)	Implementation Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences (implementation -2, Impact analysis -3)	5	5	Good.
1.1.2 (b)	Teachers use ICT enabled tools including online resources for effective teaching and learning process (usage -2, Impact -3)	5	5	Good
1.1.2 (c)	Usage of MOODLE (2) Check apart from Lecture notes availability of quizzes, beyond curriculum contents, students usage, how useful for self learning (3)	5	5	Good.
1.1.3	Guidelines to identify weak and bright students(1M); post identification actions taken(2M); impact observed and recorded(2M)	5	4	More activities for bright students to be included.
1.1.4	Classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.	5	4	No seminar hall
1.1.5 (a)	Quality of laboratory experience with respect to conducting, recording observations	5	5	Good
1.1.5 (b)	Laboratory Evaluation process: Usage of Rubrics for assessment	10	10	Good.
1.1.5 (c)	Faculty / Technician explanation in labs (at least 2-3 labs)	5	5	Good
1.1.6 (a)	Feedback collection and analysis (CRC/ Student feedback)	5	5	Good.
1.1.6 (b)	Actions taken	5	5	Nice.
1.1.6 (c)	Impact of action recorded Check action taken exactly matches with the analysis	5	5	Nice
1.1.7	Identification of curricular gaps (3M) New courses introduced (4) Analysis and action taken (3M)	10	9	Analysis need to be more effective.
1.1.8	Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the department. Score = 5 * $\dfrac{\text{No. of courses focus on such catogeries}}{\text{Total No. of courses}}$	5	4.58	5 (55/60) = 4.58.
1.1.9	Number of value-added courses for imparting transferable and life skills offered and students enrolled If No.of Value added courses > 3 and enrolled students count >50 ---- 5M	5	3	No. of students enrolled : 4

	If 3>No.of Value added courses <=1 and enrolled students count >25 ---- 3M Else --- 0M				
1.1.10	Structured feedback for design and review of syllabus (semester wise / year wise) is obtained from 1) Students, 2) Teachers, 3) Employers, 4) Alumni --- 5M Action taken and impact analysis --- 5M	10	10	Nice	
1.2	**Quality of end semester examination, internal semester question papers, assignments and evaluation (30)**				
1.2.1	Process of internal semester question paper setting, scheme of evaluation and its compliance, existence of committee	5	5	Good	
1.2.2	Question paper validation to ensure desired standard from outcome attainment perspective as well as learning levels perspective (Quality of Q papers) Internal (5) + external (5)	10	10	Good	
1.2.3	Mapping of questions with the Course outcomes, Blooms taxonomy, and indicating the above with percentage wise weightage.	10	10	Good	
1.2.4	Assignments / case studies / seminars to promote self-learning,(for coverage of non-domain POs and also higher levels of Blooms taxonomy) survey of contents from multiple sources, assignment evaluation and feedback to the students, mapping with the COs.	5	5	Good.	
1.3	**Quality of student projects (30)**				
1.3.1	Guide allocation and Projects identification strategies	5	5	Good	
1.3.2	Continuous monitoring mechanism and evaluation system (5M), Usage of Rubrics for project assessment Methodology(Appropriately documented) to assess individual contribution/understanding of the project as well as collective contribution/understanding {Process to assess individual and team performance}(5M)	10	10	Process being followed is effective.	
1.3.3	Projects classification (application, product, research, review etc.) consideration to factors such as environment, safety, ethics, cost, standards (non – domain factors) and mapping with program outcomes and program specific outcomes. (5M)	5	5	Nice.	
1.3.4	Quality of journal where the paper has been published /quality of competition in which award has been won for the projects (SCI/Scopus/UGC-3, other-1)	10	9	Ensure more publications in UGC – Core list .	
1.4	**Industry related interaction (25)**				
1.4.1	Industry supported laboratories	5	3	Establish Industry Support	
1.4.2	Industry involvement in the program design and Curriculum. (BoS-3, other-2)	5	5	Good	
1.4.3	Industry involvement in partial delivery of any regular courses for students	5	3	More involvement needed	
1.4.4	Impact analysis of industry institute interaction and actions taken thereof	5	5	Good.	
1.4.5	Industrial /internship /summer training of more than two weeks and post training Assessment	5	5	Good .	
1.5	**Factors related to Outcome based education (100)**				
1.5.1	Explanation of Articulation matrix for CO s and POs and also fixing proper attainment levels of PO,	15	15	Good .	

S.No	Description	Max marks	Marks awarded	Remarks
	PSO.(Check faculty awareness)			
1.5.2	Coverage and quality of all direct and indirect assessment tools for POs and PSOs (Such as COs, projects, placements, higher education etc., for direct assessment and recruiter, alumni, employer, parents etc., for indirect assessment). *Reasonable sample size is critical for each tool*	15	13	More samples needed for indirect tools
1.5.3	Updating the data of CO / PO/PSO assessment in a time bound manner and action / measures taken and impact (Updating – 10, action -5, impact-5)	20	10	Adhere to the guidelines & time bound
1.5.4	Initiatives for faculty and student awareness on OBE (10M) and verification of faculty and student awareness i.e. impact analysis (10M)Physically check	20	20	Good
1.5.5	CO attainment tools based on internal exam evaluation + external examination Procedures followed {Based on assessment on performance of students question wise in both cases}	20	15	Tools with necessary justify need to be maintained
1.5.6.	Action taken on non attainment of POs / Cos	10	10	Good
1.6	**Laboratory facilities (20)**			
1.6.1	Maintenance and overall ambience (to check physically whether the equipment is working)	5	3	Ambience to be maintained.
1.6.2	Safety initiatives in laboratories (incl Charts)	5	5	Good
1.6.3	Facilities (additional equipment/ softwares) created for improving the quality of learning.	10	10	Good.

2. *Student Performance:(Max-200)*

S.No	Description	Max marks	Marks awarded	Remarks
2.1	**Success rate(90)**			
2.1.1	a) Success rate of students who cleared programme without backlogs in any year of study including lateral entry=20×(Students graduated / Students admitted)	20	12.70	20 (108/170) = 12.70
	b) Improvement in success rate from previous years (1M for each percent increase)	5	5	%.4 improvement −13.79
2.1.2	a) Success rate in any year of study including lateral entry=15×(Students graduated / Students admitted)	15	12.97	15 (147/170) = 12.97
	b) Improvement in success rate from previous years (1M for each percent increase)	5	5	Improvement % −9.26.

2.1.3	Academic Performance in Third Year Academic Performance = 1.5 * API (Academic Performance Index) **API** = (3rd Year Grade Point Average of all successful Students on a 10 point scale X number of successful students)/number of students appeared in the examination)	15	12.24	$1.5\left(8.58 \times 158\right)/166$ $= 12.24$
2.1.4	Academic Performance in Second Year {Same as above formula in 2.1.3}	15	9.39	$1.5\left(7.87 \times 168\right)/211$ $= 9.39$ Needs improvement.
2.1.5	Academic Performance in First Year { Same as above formula in 2.1.3}	15	10.5	$1.5\left(8.31 \times 140\right)/165$ $= 10.5$ Needs improvement
2.2	Student enrollment (>=90% - 15M; >=80% - 10M; >=70% - 5M; otherwise – 0)	15	15	91.67%
2.3	Placement, Higher Studies and Entrepreneurship: 50 X (students placed + admitted to higher studies + 3 X entrepreneurs) / (Total students)	50	42.1	$50\left(110+3 \times 10\right)/134$ $= 42.1$
2.4	*Achievements in curricular, co-curricular and extra- curricular activities (45)*			
2.4.1	Paper, model presentation etc in International Level (IL), National Level * (NL), State Level (SL) Marks=2.5x (10 x SPIL + 5x SPNL + 2.5 x SPSL)/TNS SPIL=students participated in International Level SPNL=students participated in national Level SPSL=students participated in state Level TNS= Total number of students in 2nd, 3rd and 4th year	25	14.27	Encourage students to participate in more num of activities.
2.4.2	Certificate programs or courses like NPTEL/Course-era/Udemy etc. attended by students • Participation for 4 weeks : 3 M	20	15.56	—

	• Participation for 4 to 8 weeks: 5M • Participation more than 8 weeks: 10 M Assessment = 20×Sum of points/0.5 x No. of students			

*National level (Paper, model presentation etc) conducted in-house is treated as State level

3 Faculty contributions:(Max-250)

S.No	Description	Max marks	Marks awarded	Remarks on non compliance
3.1	Average percentage of full time teachers with Ph.D. Number of available PhDs in the department >=20% - 10M 20% <Number of available PhDs in the department>10% - 5M	10	10	Satisfied
3.2	Research Guidance (20)			
3.2.1	Number of Teachers recognized as research guides Score: Number of Teachers recognised as research guides	5	2	—
3.2.2	M.Phil / M.Tech./ (1M / candidate)	15	—	—
3.2.3	Ph.D. (5 M/ candidate)		15	4 scholars.
3.3	Research projects funded by government and nongovernment agencies during the last five years (45)		—	Focus on research projects
3.2.1	Major (More than 10 lakhs) 15M / project	25	—	
3.2.2	Minor (5M/ project)	10	—	
3.2.3	Patents (10 M/ patent) (granted -10, filed -5)			
3.4	Revenue generated from consultancy: More than 2 Lakhs : 10 marks < 2 lakhs: 5 marks	10	—	
3.5	Publications(75)			
3.5.1	Number of books and chapters in edited volumes / books published during the last five years (5M / each chapter) Only books/Book chapters with ISBN/ ISSN Numbers	10	10	2 books.
3.5.2	Publication in journals: Marks awarded=50 X P/F F = number of faculty, P=(1xSCI+0.6xWOS+0.6xScopus+0.3xUGC)/(number of publications)	50	0.65	Necessary measures to be of for improving the number of quality papers.
3.5.3	Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed.	15	10	Needs improvement

Year	Total number of Citations in		Total number of Publications in	
	Scopus	Web of Science	Scopus	Web of Science
2020-21	57	2	1	1

3.6	Papers presented in seminars / conferences(30)			
3.6.1	Marks = 30 x (1.5 x NFPI +0.5xNFPN)/TNF NFPI=number of faculty presented in international	30	10.38	Encourage the faculty

	seminars/conferences NFPN=number of faculty presented in national seminars/conferences Max: 30M			
3.7	***Seminars / Conferences / Workshops / Symposia wherein served as Resource person(10)***			
3.7.1	Keynote Speaker / Chairman / Co-Chairman / Distinguished Guest / Key Speaker / Lead Discussant International: 4M/session (max 20) ; National: 2M/session (max 10)	10	10	Good.
3.8	***Membership in editorial boards and number of papers reviewed (2.5M / paper)***	5	—	Ensure faculty be part of editorial Board
3.9	***Membership / executive positions in professional bodies and their related activities(2.5M / activity)***	5	5	Professional memberships.
3.10	Development activities (product development, instructional materials, working models, charts, monogram etc.) 2.5M/activity	5	—	Focus.
3.11	***Guest lectures delivered by faculty*** Industry / research institutes / universities 2.5M / lecture	5	—	Plan accordingly
3.12	Teachers awarded national / international fellowship and honors for advanced studies/research during 2019-20 (only academic bodies and Govt. Organizations) 2.5M/award	5	—	Focus.
3.13	Faculty Qualification $FQ = 1.5x\ [(10X + 6Y)/F)]$ where X is the no. of regular faculty with Ph.D., Y is the no. of regular faculty with M.Tech., F is no. of regular faculty required to comply 1:25 Faculty Student ratio including LE.	15	12.27	—
3.14	Faculty participation in online/ face-to-face Faculty development/training activities/STTPs (Professional Development Programmes, Orientation /Induction Programmes, Refresher Course, Short Term Course). A Faculty scores maximum five points for participation • Participation in 2 to 5 days FDP: 3 M • Participation>5 days FDP: 5M • Assessment = 3×Sum of points/0.5RF where RF is required faculty as per 1:25 ratio	20	20	—

4. Co-curricular activities:(Max-100)

S.No	Description	Max marks	Marks awarded	Remarks on non compliance
4.1	***Expert faculty / industrial heads visits*** From Foreign universities / IITs, NITs /research organizations / companies (5M/ visit) From universities (4M / visit)	15	15	—
4.2	Number of workshops/seminars/ FDP / STTP conducted for faculty during the year.	15	13	—

		Max marks	Marks awarded	Remarks on non compliance
	2 day – 2/3, 5 day- 3/5, two week – 5/10 (higher marks for sponsored)			
4.3	Department Newsletter (1) / Magazine (2) / Website (2)	5	3	No myagud
4.4	Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology Student clubs 15*(No. of students participated (head count)/Total number of students)	15	8.05	student participation to be improved
4.5	*Alumni association meetings*	5	5	Good.
4.6	*Contributions from Alumni* (Technical collaboration / employment providers / aid for infrastructure improvement / scholarships) (1/activity)	5	5	—
4.7	Number of extension and outreach Programs conducted in collaboration with industry, community and Non-Government Organizations through NSS/ NCC, etc., year wise during the year **students participating in extension activities also required** 10*(No. of students participated (head count)/Total number of students)	10	1	Improve the number of outreach programmes
4.8	Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during year (only functional MoUs with ongoing activities to be considered) (1/Mou, 1/activity)	5	3	Conduct activities.
4.9	*Adjunct faculty(Minimum 30 Hrs engagement /semester)(10M / faculty)*	10	–	Focus.
4.10	Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university(2)/state(3)/national(5)/ international(10) level (award for a team event should be counted as one) during the last five years.	10	8	Good.
4.11	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the department	5	5	Good.

5. *Student support systems: (Max-85)*

S.No	Description	Max marks	Marks awarded	Remarks on non compliance
5.1	**Mentoring system:** Efficacy of the system (5M), impact analysis (10M)	15	15	Effective.
5.2	**Self learning (15)5**			
5.3.1	Scope for self-learning	5	5	Good.
5.3.2	The facilities provided such as materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization	10	10	Good.
5.3	**Career Guidance, Training, Placement (15)**			

5.3.1	Number of students participated by career counselling and guidance for competitive examinations offered by the Institution during the year.	5	5	—
5.3.2	Number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year. 0-25% - 2, 26-50% -3, 51-75%-4, >76% -5	5	5	Cranced the students
5.3.3	Number of students Appearing Vs qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, *etc.*)) during the year 0-25% - 2, 26-50% -3, 51-75%-4, >76% -5	5	2	
5.4	Entrepreneurship Cell (25)			
5.4.1	Subject offered related to Entrepreneurship	5	5	—
5.4.2	Entrepreneurship activities	5	5	—
5.4.3	Students benefitted	5	5	—
5.4.4	Paper published	5	-	Ensure
5.4.5	Innovative projects	5	-	Plan
5.5	Grievance redressal system for the students and action taken	5	5	—
5.6	Department library (10)			
5.6.1	No. of Volumes, titles, journals and magazines available in the department library	5	5	—
5.6.2	Usage of department library by teachers and students	5	5	—

6. Continuous Improvement (Max-40)

S.No	Description	Max marks	Marks awarded	Remarks
6.1	PO And PSO attainment {2M For Each 1% Increase} 2015-19 batch to 2016-20 batch	8	8	Good
6.2	Pass percentage{ 2M For Each 1% Increase}	8	8	Good.
6.3	Intake: (Improvement in mean rank in open category- 5M) + (>95% seats filled -5M 90-95% seats filled – 3M, and below 90% -0M)	8	8	Good.
6.4	Student Placements, Higher Studies& Entrepreneurship {1M For Each 1% Increase}	8	8	Good
6.5	Faculty Publications {1M For Each 1% Increase}	8	8	Good

7. Innovative / Best practices and their impact (Max-25)

S.No	Description	Max marks	Marks awarded	Remarks
7.1	Describe the best practices the department claims to have a niche for itself in the areas such as Teaching learning process, community engagement, co-curricular activities, evaluation, feedback system, Student participation in other activities, Alumni activities etc., (which makes the dept unique)	10	10	Good.
7.2	The impact of such activities	15	15	Good.

Format for Presentation of Best Practices (Criteria 7.1)
(Department should submit the Best Practices in this format only as Annexure)

1. Title of the Practice
This title should capture the keywords that describe the practice.

2. Objectives of the Practice
What are the objectives / intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice? (in about 20 words)

3. The Context
What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice? (in about 30 words)

4. The Practice
Describe the best practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced? (in about 50 words)

5. Evidence of Success
Provide evidence of success such as performance against targets and benchmarks, review/results. What do these results indicate? Describe in about 40 words.

8/1/22

(External Auditor)

Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Permanent Affiliation by Andhra University &Approved by AICTE

Accredited by NBA (ECE,EEE,CSE,IT, Mech. Civil & Chemical) & NAAC)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Action Taken Report on IQAC Remarks (2021-2022)

1. **Entrepreneurship:** The main objective of entrepreneurship events for students is to inspire and empower the next generation of entrepreneurs by providing them with the necessary skills, knowledge, and resources to succeed in the world of business. In order to achieve the objective the department of Electronics and Communication Engineering (ECE) and ANITS-IIC organized a three days BUSINESS COMBAT (COGNITIVE VIRTUAL BRAIN-STORM) event during 21st, 22nd and 23rd of February, 2023 consisting of 4 rounds. Round 1(20.02.2023) 49 teams participated. Round-2(21.02.2023), Out of 46 teams, 30 teams were shortlisted. Round 3(22.02.2023), Out of 30 teams, 18 teams were shortlisted. Round 4(23.02.2023), Out of 18 teams, 3 teams were winners and cash prizes were awarded accordingly.

List of Participants: The following teams participated in the first round:

S. No.	Team Name	Team Leader
1.	Code Black	Senapati Sai Rahul
2.	Team E^X	Mohammed Zubair
3.	Smart Electronics Hub	Mohan Sandeep Nekkanti
4.	Triodes	I .Deepi Ka
5.	Passion Entrepreneurs	Shaik Babini
6.	Neoterics	A.Charishma Reddy
7.	Innovators	J.Lavanya
8.	Fantastic Four	Jyoteesh
9.	Team Avatars	B.Varun Kumar
10.	Josh Team	Darisi Asritha
11.	Mind Benders	Sha Mohammad Shabbir
12.	Anits Amplifiers	Chakrapani Putcha
13.	Brainiacs	Anies Faizi E
14.	The Admirals	Boyina Rashmitha
15.	Aviators	G. Siddhu
16.	The Achievers	Mal La.Sai Thanuj
17.	Business Warriors	Akula Divakar
18.	The Planet Wiser	Doppa Deepi Ka
19.	Business Preachers	N. Tarun Sa
20.	M^2	Monika. Pedapati
21.	Team Gravity	Medapureddi Uma Mahesh
22.	Finance Wizards	Usha Sri
23.	Team Trinetra	Venu Madhav Murapaka
24.	Tunderbolts	Jonnakuti Hemanth Kumar

25.	Megaminds	N. Shankar
26.	Team Universe	P . Richa Santhi Chandra
27.	Unlimited	N Gowthami
28.	Team Infizar	K Sashank Kumar
29.	Ksl	Kanithi Sai Lakshmi
30.	Dream Team	Hima Bindu
31.	Brainy Bunch	K.Leelakumari
32.	Team Anids	Uppala Lakshmi Poornima
33.	Immortal	S.Samba Siva Reddy
34.	Friends	Uppada Dharanesh
35.	Team Inspire	G.Raaga Srinija
36.	The Strikerz	Omkar Palika
37.	Team Redwine	R V S Sai Kiran
38.	Spartans	Neelam Parvathi
39.	Team Phoenix	V. Deekshitha
40.	Dream Crushers	P.Tejavardhanachari
41.	Future Billionaires	P.Akhila
42.	Ks*2 Team	P. Kusuma
43.	Te A M P O T T E R S	P. Sai Teja
44.	The Deciders	B. Vamsi
45.	Eco-Cult	Monika Kusumanchi
46.	Smash	Y. Bhanu Prakash
47.	Agri Teja	Surya
48.	One Hit-Wonders	R. Indrani
49.	Esperanza	K. Abhishek Yash Raj

2. Real Time Projects:

Tinkerer's lab is extensively used towards development of real time projects. The following are the list of projects done in the tinkerer's lab for the academic year 2022-2023

S.No	Project title	Project Guide name
1	Development of technologies for storage of Onions	Prof V Rajyalakshmi
2	Onion Oreservator	Prof V Rajyalakshmi
3	Border surveillance system and weapon activation usingIoMT	Dr N Swathi
4	Monitoring and management of water quality, soil fertility(macro-nutrients)	Mr B Chandra Mouli
5	Automated pot irrigation and IoT based monitoringsystem	Mr B Chandra Mouli
6	Farm monitoring system	Mr N Srinivasa Naidu
7	Gesture vocaliser(Deaf and dumb hospital support system)	Mr N Srinivasa Naidu
8	A cost effective neutron counter platform	Dr G Prasanna
9	A smart wearable for clinical characterization of motor symptoms in Parkinson's disease	Dr G Prasanna
10	Implementation of integrated intelligent saline stand	Dr S Srinivas
11	3D printer using fused deposition modeling	Mrs G Gayathri

12	IoT based smart waste management system using Raspberry Pi4	Mr Nithin Kumar
13	Smart water surveillance system	Dr P Murugapandiyan
14	Automatic anesthesia controlling with nutrientssuggesting system	Mrs M Nirmala
15	Door lock security system using face detection andthermal screening	Mrs D Nagamani
16	Health monitoring and alerting smart wheelchair for physically disabled people	Mr N Ramkumar

3. International Conference:

The First international conference- AICTE sponsored Two-day International Conference on Advancement in Electronic Systems and Communication Technologies (ICAESCT 2022) was held at 4th & 5th of November, 2022 in Hybrid mode, Organized by the Department of Electronics & Communication Engineering, Anil Neerukonda Institute of Technology and Sciences (A). This conference welcomes all scientists, engineers, technocrats and researchers from all walks of society to share their knowledge in the area of next- generation electronic systems and Communication Technologies. The conference will include plenary session and talks from eminent researcher on the state of art in the related areas. It is a great stride for the department in the direction of achieving excellence in the field of emerging technologies. Total 85 papers were received and 68 papers were accepted and presented. One paper was received from Bangladesh. The papers of the conference will be published in the form of conference proceedings with ISBN number. The conference provided a platform to the Scholars, professionals & engineer who have a propensity towards research, to explore innovative ideas related to Electronics & Communication Engineering.

Glimpse of Inauguration Sessions

4. Faculty R&D Activities:

The main aim of faculty research and development (R&D) activities in a department is

- To advance knowledge and contribute to the academic and research community through the generation of new ideas, discoveries, and innovations.
- To enhance the research skills and expertise of faculty members, promote interdisciplinary collaborations, and support the academic mission of the department and institution.
- To secure external funding, promote the department's reputation and visibility, and enhance the quality of teaching and learning through the integration of research into the curriculum.
- In order to achieve all this aims the faculty are actively participated/completed several workshops, FDP's, NPTEL/ online course certifications and also published several SCI, Scopus and UGC care research articles

Academic Year	Workshops	FDP's	NPTEL/ online Course certification	Publications
2022-2022	06	36	16	Conferences-55 SCI-2 Scopus-2

Project Proposal Submissions by faculty for the academic year 2022-2023:

S. No	Name of The Faculty	Title of the Project	Details of the project major/Minor	Sanctioning Authority	Amount	Reference No.
1	Dr.P.Murgapandiyan (PI) & Dr.V.Rajya Lakshmi (Co-PI)	Design and Development of E-mode GaN-HEMTs for Electric Vehicles	State University Research Excellence (SERB-SURE)	DST-SERB	29,90,690	SUR/2022/001632
2	Dr.Murugapandiyan	DESIGN OF NANO-COMPOSITE BASED SENSOR FOR EOLOTROPIC DISTRIBUTIONS OF ELECTRICAL RESISTIVITY	State University Research Excellence (SERB-SURE)	DST-SERB	29,30,000	SUR/2022/002048
3	Dr. A. Lakshmi Narayana (PI) & Dr.B.Somasekhar (Co-PI)	Design and Implementation of Hybrid PAPR Reduction method for FBMC using LABVIEW	State University Research Excellence (SERB-SURE)	DST-SERB	24,97,556	SUR/2022/004487
4	Dr. B. Somasekhar(PI) & Dr.A.Lakshmi Narayana (Co-PI)	DESIGN AND IMPLEMENTATION OF HYBRID SYSTEM ARCHITECTURE AND CHANNEL	State University Research Excellence (SERB-SURE)	DST-SERB	20,68,637	SUR/2022/004013

		ESTIMATION ALGORITHM IN MILLIMETER-WAVE MIMO SYSTEMS				
5	Dr. S. Srinivas(PI), K Gowreesrinivas (CO-PI),Prasad Kaviti(CO-PI)	IMPLEMENTATION OF LOW COST CAD TOOL FOR 3D IC DESIGN USING SUB BLOCKS METHODOLOGY WITH REDUCED DESIGN TIME	State University Research Excellence (SERB-SURE)	DST-SERB	29,25,000	SUR/2022/001632
6	Dr. JANA BHASKARA RAO (PI) & Dr. K V G Srinivas (Co-PI)	FPGA based surface roughness detection system using image enhancement algorithms	State University Research Excellence (SERB-SURE)	DST-SERB	5,10,000	SUR/2022/003496
7	Dr. P. Murugapandiyan Associate Professor (PI)	Design and Development of E-mode GaN-HEMTs for reduced size and efficient power converters in Electric Vehicles	Core Research Grant (DST-SERB)	DST-SERB	25,77,564	CRG/2023/001262

5. Consultancy:

The objective of consultancy is to leverage the technical expertise and knowledge of faculty members and students to provide valuable services and solutions to external clients, while also promoting industry-academia collaborations and generating revenue for the department. In order to meet the objective the faculty of ECE has trained "Avantel Limited" industry people in various topics.

S.No	Name of the Faculty	Month and Year	Nature of work	Industry	Total Amount (Rs)
1.	Mr.B.Chandra Mouli	16th June 5th August 2022	Conducted Training sessions for Avantel employees on "Digital Communication Techniques"	Avantel Limited	10500
2.	Mr.R.Chandrasekhar	16th June 5th August 2022	Conducted Training sessions for Avantel employees on "Digital Communication Techniques"	Avantel Limited	7000
3.	Mrs.Ch.Anoosha	16th June 5th August 2022	Conducted Training sessions for Avantel employees on "Digital Signal Processing"	Avantel Limited	13500

4.	Dr.G.Prasanna	16th June 5th August 2022	Conducted Training sessions for Avantel employees on "Random variables and Probability Theory"	Avantel Limited	
5.	Mr.V.V.K.Raju	16th June 5th August 2022	Conducted Training sessions for Avantel employees on "Digital Signal Processing"	Avantel Limited	
	Total				**31,000/-**

Dr.B. Jagadeesh
Prof& HOD, ECE