PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY (Autonomous)
KANURU, VIJAYAWADA
Department of Electronics and Communication Engineering
Academic Year 2023-2024

1. Faculty Achievements:

Patents:

i. Mr.M.Srinivasa Rao, Mrs.K.Anitha filed and published a patent - LOWER LIMB PROSTHETIC with the application no: 384552-001 on 25/08/2023 (**Granting Organization:** The patent office, Government of India).

ii. Dr. C Subba Rao, Mrs.L Madhavi Devi, Mrs.B Swathi Lakshmi, Dr.Habibulla Mohammad, Mrs.B V Subbayamma filed and was granted a patent - **Automatic Wireless Parking Identification And Warning System** with the application no: 543000 on 26-06-2024 (**Granting Organization:** The patent office, Government of India).

a.Ph.D.'s awarded/Guided:

i. **Mrs V.Ratna Kumari** awarded Doctor of Philosophy (Ph.D.) in January 2024 from JNTUK, Kakinada and her research topic is **Design and Implementation of ear detection and recognition algorithms for occluded and noisy environment**.

b.   Reviewers of journals:

i. Dr.Ch.Subba Rao served as **Reviewer** for first IEEE International Conference on Data Science and Network Security (ICDSNS - 2023) organized by Kalpataeu Institute of Technology, Tiptur, during $28^{th} – 29^{th}$ July 2023.

ii. Dr. K.Ramanjaneyulu served as **Reviewer** for first IEEE International Conference on Data Science and Network Security (ICDSNS - 2023) organized by Kalpataeu Institute of Technology, Tiptur, during $28^{th} – 29^{th}$ July 2023.

iii. Dr J. Ravindra Babu served as **Reviewer** for a book on Image Processing Techniques for Medical Mammography Masses Detection Applications –BP International on 19th August, 2023.

iv. Dr J. Ravindra Babu served as **Reviewer** for a book on Massive Data analysis IoT Perspective - BP International on 31st August, 2023.

v. Dr J. Ravindra Babu served as **Reviewer** for Global Press Hub – Asian Journal of pure and applied Mathematic on 31st August, 2023.

vi. Dr. K. Ramanjaneyulu contributing as **Reviewer** for AICTE sponsored IEEE International conference on Networks, Multimedia and Information Technology organized by Nitte Meenakshi Institute of Technology, Bengaluru 1st – 2nd September 2023.

vii. Dr. K. Ramanjaneyulu contributing as **Reviewer** for 5th International conference on Artifical Intelligence in Engineering & Technology held at the Pacific Sutera Hotel, Sabah during 12th – 14th September 2023.

viii. Dr J.Ravindrababu served as **Reviewer** for B P International on 7th November, 2023.

ix. Dr J.Ravindrababu served as **Reviewer** for Asian Journal of Research in Computer Science on 26th December, 2023.

x. Mrs L.Madhavi Devi Attended to **Chairing the Session** titled TS 06: Computational Intelligence in the 4th International Conference on Computational Intelligence (ICICI 2023) held during 04th & 05th November, 2023**.**

xi. Mrs L.Madhavi Devi served as **Program Committee member and Reviewer** in 3rd International Conference on Intelligent Vision and Computing (ICIVC 2023) held during 25th – 26th November, 2023**.**

xii. Mrs L.Madhavi Devi served as **Technical Program Committee member and Reviewer** in Congress on Smart Computing Technologies (CSCT 2023) held during 2nd - 3rd December, 2023.

viii. Mrs L. Madhavi Devi acted as **reviewer** for 2024 International Conference on Social and Sustainable Innovations in Technology and Engineering SASI-ITE'24 organized by SASI Institute of Technology, Tadepalligudem from 23rd – 25th February 2024.

ix. Dr. Haji Habibulla MD acted as **reviewer** for "The 3rd International Conference on Optoelectronic Information and Computer Engineering (OICE2024) (Scopus Indexed) organized by Association for Science and Engineering in (Yichang), China from 25th -27th May 2024.

x. Dr. Haji Habibulla MD acted as **reviewer** for the article NJTD-2298 of the journal "Nigerian Journal of Technological Development" (Scopus Indexed) in Feb'2024.

c.MOOCs/COURESERA courses completed by the faculty:

i. 17 faculty members certified in NPTEL online course on **Accreditation and Outcome Based Learning** conducted by IIT Kharagpur during June- December 2023. Exam was conducted in the month of October 2023. Following are the certified faculty.

S.No	Name of The Faculty	Score	Certificate Type
1	Dr Ravindra Babu	64	Elite
2	Dr Haritha Thotakura	73	Elite
3	Chekka Gangadhar	80	Elite+Silver
4	Dr A Geetha Devi	90	Elite+Gold
5	Surya Prasada Rao Borra	80	Elite+Silver
6	Hareesha Dandamudi	78	Elite+Silver
7	Ratna Kumari Vemuri	84	Elite+Silver
8	Bhimineni Venkata Subbayamma	84	Elite+Silver
9	Swati Lakshmi Boppana	71	Elite
10	Kuruganti Phani Rama Krishna	76	Elite+Silver
11	Ashok Babu Ane	64	Elite

12	Dr P Venu Madhav	55	Successfully Completed
13	Dr V S D Rekha	82	Elite+Silver
14	Madhavi Devi Lanka	54	Successfully Completed
15	Swathi Dasi	91	Elite+Gold
16	Sri Lakshmi Chandana	72	Elite
17	Dr T Mahalakshmi	90	Elite+Gold

ii. **NPTEL online certification courses** conducted by various IIT's from Jan-April 2024. Exam conducted in the month of April 2024. Following are the details.

S.No	Name of The Faculty	Name of The Course Registered	Score	Certificate Type
1	Dr A Geetha Devi	Problem Solving Through Programming In C	62	Elite
		Art of C Programming	83	---
2	Mr.K.P. Rama Krishna	Microprocessors And Interfacing	71	Elite
3	Dr.V.S.D.Rekha	Problem Solving Through Programming in C	Mentor for 29 students	Mentor certificate
4	Mrs.D.Swathi	Problem Solving Through Programming in C	76	Elite
		Art of C Programming	88	---

Others:

i. Dr. P. Venumadhav acted as a judge for screening the student **NCSC presentation**, 31st National Science Congress – Cluster (District) level exhibition on 26.09.2023 at Kendriya Vidyalaya No.1 SN puram, Viajyawada – 1.

ii. Dr. T. Haritha attended as a **Member for Department Academic Committee** (ECE) at RVRJC on 27.09.2023.

iii. Dr.C. Subba Rao attended Strengthening the **Research and Digital Education Ecosystem**: Elsevier Paving, The Way at Elsevier Connect Seminar organized by Researcher Academy (ELSEIVER) on 31st October, 2023.

2. Students' achievements:

a) **Co-curricular Activities:**

Student Paper Publications and Presentations:

i. P.S.N.M.Manasa, Md.Jabeer Shareef, N.Sai Likhith, V.Swathi Sree published a paper entitled **Comprehensive Liver Tumour Detection And Stages Classification Using Deep Learning** - Journal of Aeronautical Materials, ISSN: 1005-5053; Vol:44; Issue:1;PP No: 81-89; March 2024. (Scopus)

ii. Rabia Kousar, V. Pallavi, V. Venkata Rao, Ch. Venkata Sai published a paper entitled **Osteosarcoma Bone Cancer Detection Using Convolutional Neural Networks and Supervised Deep-Learning Methods** - Journal of Aeronautical Materials, ISSN: 1005-5053; Vol:44; Issue:1;PP No: 72-80; March 2024.

iii. Mohammed Naseer Baig, Vanga Ganesh, Sai Kartheek, Peddobotla Satya Kowmudi, Rajula Pati Pradeep presented a paper on **Power v-Optimized Appriximate Multiplier With Tunable Accuracy** - ICIET-24, organized by National Institute For Engineering And Research, Coimbatore, India on 2nd March 2024.

iv. D.Sai Revanth, B.Puja Madhuri presented a paper on **Secure Touch:Iot-Enabled Finger-Touch Authentication For Seamless Mobile Security** - 4th International Conference on Nano Electronics ,Machine Learning ,Internet of Things &Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand,India durig 13th – 14th April 2024.

v. Nagabathula Lakshmi Gayathri,Peta Asha,Vadlamudi Sangeetha,Pabolu Venkata Dinesh, presented a paper on **Development of Skin Lesion Classification System Based on Watershed Algorithm and Custo CNN** - 4th International Conference on Nano Electronics, Machine Learning, Internet of Things & Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand,India durig 13th – 14th April 2024.

vi. Mallampally Manvitha Naga Sri presented a paper on **Co-Circular Design of Dual –Band Micro strip Patch Antenna for 5G Mobile Terminals** - 4th International Conference on Nano Electronics ,Machine Learning ,Internet of Things &Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand,India durig 13th – 14th April 2024.

vii. Shaik Hussainbee, Velamala Lakhmi Narasimha, Vadlamani Sarya Bharathi, Shaik Firoj presented a paper on **Enhanced Retinal Image Analysis For Diabetic retinopathy detection Using Efficientnetb3** - 12th International Conference On Recent Challenges In Engineering And Technology(ICRCET-2024) organized by Institute For Educational Research And Publication(IFERP), Bengaluru, India during 23rd – 24th Apil 2024.

Certification Courses:

i. 111 students of III B.Tech completed the Certification Course in **JAVA** through **Spoken Tutorials** offered by IIT Bombay in the month of October, 2023. No. of registered students 122.

ii. 117 students of III B.Tech completed the Certification Course in **Python 3.4.3** through **Spoken Tutorials** offered by IIT Bombay in the month of October, 2023. No. of registered students 125.

iii. **NPTEL Online Certification Course** was conducted by Various III's during June-December 2023. Exam was conducted in the month of September and October 2023. Following are the details of IV, III & II B.Tech certified students.

S.No	Reg No.	Name of The Student	Year of study	Name of The Course Registered	Score	Certificate Type
1	21501A04C5	V. Sowjanya	III	Big Data Computing	63%	Elite
2	21501A0445	Gssp Karthik	III	C Based VLSI	44%	Successfully Completed
3	22501A04C3	Bala Siva Sai Satyanarayana Uddagiri	II	C Programming and Assembly Language	46%	Successfully Completed
4	23505A0408	Meduri Jahnavi	II	C Programming and Assembly Language	44%	Successfully Completed
5	21501A0403	Akkipalli Vasavya	III	Digital Circuits	60%	Elite
6	21501A0408	Arigela Sivaram	III	Digital Circuits	75%	Elite + Silver
7	21501A0424	Ch.Gurubabu	III	Digital Circuits	68%	Elite
8	21501A0452	Kareti Sri Krishna	III	Digital Circuits	54%	Successfully Completed
9	21501A0454	Kavilikatta Varsha	III	Digital Circuits	61%	Elite
10	21501A0464	Kovuri Sai	III	Digital Circuits	61%	Elite
11	22505A0407	Parasa Thapaswi	III	Digital Circuits	58%	Successfully Completed
12	22505A0409	Sivaratri Narayana Swami	III	Digital Circuits	63%	Elite
13	21501A0410	Bande Manoj	III	Digital Circuits	71%	Elite
14	21501A0414	Bhagavathula Lakshmi Venkata Sarvani	III	Digital Circuits	71%	Elite
15	21501A0442	G.J.S.L.Phanindra	III	Digital Circuits	77%	Elite + Silver
16	21501A0455	Kavyasri Kanaka	III	Digital Circuits	58%	Successfully Completed
17	21501A0474	Mandala Jahnavi	III	Digital Circuits	62%	Elite
18	21501A04A0	P V N S Surya Priya	III	Google Cloud Computing Foundations	63%	Elite
19	21501A0485	Muvvala Haritha	III	Google Cloud Computing Foundations	58%	Successfully Completed
20	22501A04B2	Anand	II	Google Cloud Computing Foundations	56%	Successfully Completed
21	21501A04A3	Rajulapati Puneetha	III	Google Cloud Computing Foundations	57%	Successfully Completed
22	22501A0468	Kommukuri Charan	II	Google Cloud Computing Foundations	45%	Successfully Completed

23	22501A04A0	Pamarthi Vaishnavi	II	Google Cloud Computing Foundations	56%	Successfully Completed
24	22501A04C7	Manasa Vanukuru	II	Google Cloud Computing Foundations	52%	Successfully Completed
25	21501A04B4	Talluri Divya Naga Durga	III	Google Cloud Computing Foundations	57%	Successfully Completed
26	20501A0495	Rompellisantoshkumar	IV	Hardware Modelling Using Verilog	75%	Elite + Silver
27	20501A04A8	Thollikonda Esther Rani	IV	Introduction To Machine Learning	66%	Elite
28	20501A04C6	Yadavalli Omkar	IV		68%	Elite
29	21505A0401	Sri Khyathi	IV	Introduction To Internet of Things	72%	Elite
30	21501A0488	N.Bhovaneswari	III	Modern Digital Communication Techniques	56%	Successfully Completed
31	21501A04D0	Y Chamundeswari	III	Problem Solving Through Programming In C	62%	Elite
32	21501A04B0	Shaik Saleem	III	Programming In Java	56%	Successfully Completed
33	21501A04A2	P Vivek Raj Manoj	III	Programming In Java	57%	Successfully Completed
34	21501A0469	Bharath Narasimha Rao Madakam	III	Programming In Java	54%	Successfully Completed
35	21501A0493	Palle Srinivasareddy	III	Programming In Java	67%	Elite
36	22501A0461	Kodali Praneetha	II	Psychology of Everyday	60%	Elite
37	22501A0452	Kandikonda Anisha	II	Psychology of Everyday	51%	Successfully Completed
38	21501A0477	Mediboyina Praveen Kumar	III	Sensor Technologies: Physics Fabrication and Circuits	68%	Elite
39	22501A0461	Kodali Praneetha	II	Stress Management	80%	Elite + Silver
40	20501A04B7	Vanga Ganesh Sai Kartheek	IV	VLSI Design Flow RTL to GDS	88%	Elite + Silver
41	22505A0406	Ogirala Bindu Madhavi	III	VLSI Design Flow RTL to GDS	55%	Successfully Completed

ii. **NPTEL online certification courses** conducted by various IIT's during the period June-Dec 2023 and Jan-April 2024. Following are the details of various courses done by students under the A.Y:2023-24.

S.No	Reg. No	Name of The Student	Year	Name of the Course Registered	Score	Certificate Type
1	20501A0439	Kaligithi Dharani Supraja	IV	Introduction To Industry 4.0 And Industrial Internet of Things	53	Successfully completed
2	21501A0408	Arigela Sivaram	III	Evolution of Air Interface Towards 5G	64	Elite
3	21501A0410	Bande Manoj	III	Evolution of Air Interface Towards 5G	49	Successfully completed
4	21501A0414	Bhagavathula Lakshmi Venkata Sarvani	III	Evolution of Air Interface Towards 5G	73	Elite
5	21501a0442	Gjslphanindra	III	Evolution of Air Interface Towards 5G	53	Successfully completed
6	21501A0451	Kandula Naga Praveen	III	Evolution of Air Interface Towards 5G	52	Successfully completed
7	21501A0452	Kareti Sri Krishna	III	Evolution of Air Interface Towards 5G	56	Successfully completed
8	22505A0406	Ogirala Bindu Madhavi	III	Evolution of Air Interface Towards 5G	61	Elite
9	21501A0474	Mandala Jahnavi	III	Evolution of Air Interface Towards 5G	54	Successfully completed
10	21501A0477	Mediboyina Praveen Kumar	III	Evolution of Air Interface Towards 5G	54	Successfully completed
11	21501A0485	Muvvala Haritha	III	Evolution of Air Interface Towards 5G	48	Successfully completed
12	21501A04A0	P.Veena Naga Sri Surya Priya	III	Evolution of Air Interface Towards 5G	71	Elite
13	21501A04A3	Rajulapati Puneetha	III	Evolution of Air Interface Towards 5G	61	Elite
14	21501A04A6	Akhila Salapati	III	Evolution of Air Interface Towards 5G	63	Elite
15	21501A04B4	Talluri Divya Naga Durga	III	Evolution of Air Interface Towards 5G	65	Elite
16	21501A04D0	Yekula Chamundeswari	III	Evolution of Air Interface Towards 5G	47	Successfully completed
17	22505A0407	Parasa Thapaswi	III	Evolution of Air Interface Towards 5G	69	Successfully completed
18	21501A0412	B Nikhitha	III	Problem Solving Through Programming in C	41	Successfully completed
19	21501A0419	Bommareddy Neelima	III	Problem Solving Through Programming in C	41	Successfully completed
20	22505A0407	Parasa Thapaswi	III	Problem Solving Through Programming in C	55	Successfully completed
21	22501A0439	Garray Shyam Venkata Rama Swamy	II	Problem Solving Through Programming in C	52	Successfully completed
22	22501A0460	Katuru Gunadeep	II	Problem Solving Through	42	Successfully completed

				Programming in C		
23	22501A0461	Kodali Praneetha	II	Problem Solving Through Programming in C	57	Successfully completed
24	22501A0463	Kokku Rupesh Hari Sai	II	Problem Solving Through Programming in C	42	Successfully completed
25	23505A0403	Jithin Krishna Chintha	II	Problem Solving Through Programming in C	64	Elite
26	22501A0469	Konduri Venkata Naga Sri Guru Sasank	II	Problem Solving Through Programming in C	44	Successfully completed
27	22501A04A5	Prekki Satya Vamsi Krishna	II	Problem Solving Through Programming in C	41	Successfully completed
28	22501A04C3	Bala Siva Sai Satyanarayana Uddagiri	II	Problem Solving Through Programming in C	66	Elite
29	23505A0408	Medurijahnavi	II	Problem Solving Through Programming in C	43	Successfully completed
30	23505A0409	Polagani Siva Babu	II	Problem Solving Through Programming in C	54	Successfully completed
31	21501A0224	Chatala Gurubabu	III	Introduction to Programming in C	78	Elite
32	21501A0483	Mohammad Sohail	III	Introduction to Programming in C	82	Elite
33	22501A0441	Gudapati Srujana	II	Introduction to Programming in C	49	Successfully completed
34	21501A04A9	Shaik Chinthapalli Fareed Baba	III	Cloud Computing	52	Successfully completed
35	21501A04B2	Shaik Sultan Basha	III	Cloud Computing	63	Elite
36	22505A0409	Sivarathri Narayanaswami	III	Microprocessors And Interfacing	57	Successfully completed
37	22501A0450	Kancharla Nishitha Krishna	II	Analog Circuits	50	Successfully completed
38	22501A0480	Marupuru Venkat Hari Chandana		Analog Circuits	50	Successfully completed
39	22501A0498	Pagolu Sreeha Niveda	II	Analog Circuits	52	Successfully completed
40	22501A04C5	V S L Lavanya Kompella	II	Analog Circuits	53	Successfully completed
41	22501A04C4	Uma Kureti	II	User-Centric Computing for Human-Computer Interaction	47	Successfully completed
Note: Reg.No 22505A0407 Certified Two Courses					

iii. **111** students of II B,Tech has completed certification course on **Basics of Python** offered by Infosys during Feb-March 2024.

iv. **3** students of III B,Tech has completed certification course on **Python Foundation certification** offered by Infosys during Feb-March 2024.

b. Extra-curricular Activities:

i. Ms. G.Srujuna Reg.No: 22501A0441, J.Thabitha 23505A404 secured 3rd prize in CIRCUIT CRAZE conducted by Sunrise, NRI College, Pothavarappudu.

ii. Ms. G.Srujuna Reg.No: 22501A0441 & Ms. J.Thabitha 23505A404 secured 2nd prize in paper presentation conducted by Sunrise, NRI College, Pothavarappudu.

iii. Mr. K. Gunadeep Reg.No: 22501A0460, Mr. Shankar Reg.No: 22501A471 secured 1st prize in Technical Quiz conducted by QIS College of Engineering &Technology, Ongole on 07th February 2024.

iv. Ms. Gnana Prasoona Reg.No: 22501A0404, CH.Anusha Reg.No: 22501A413, CH.Yamini Sushma Reg.No: 22501A415, K.Anisha Reg.No: 22501A452, Ms. K.Shanmathi Reg.No: 22501A446, Ms. K. Praneetha 22501A0451 secured 2nd prize in throw ball conducted by Qis College of Engineering &Technology, Ongole on 08th February 2024.

v. 14 students of II B.Tech participated in Technical Quiz Qis College of Engineering &Technology, Ongole on 8th February 2024.

vi. K Praneetha 22501A0461, Ch.Likhitha 22501A0420, Mr. B.Dhanush 22501A430, Mr. E. Vardhan Babu Reg.No: 22501A432, Ms. K. Shanmathi Reg.No: 22501A446, Ms. K. Anisha Reg.No: 22501A0452 participated in Dance conducted by QIS College of Engineering &Technology, Ongole on 08th February 2024.

vii. Two Students received **Merit Scholarships** from Institution of Engineers India (IEI): ₹ 28,000.

   1.Ms. Saritha - 21501A0476
   2.Ms. Chamundeswari - 21501A04D0