

Prasad V. Potluri
SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA
NBA & NAAC Accredited, ISO: 9001-2015 Certified Institution, AICTE Approved &
Permanent Affiliation to JNTUK, Kakinada
(Sponsored by Siddhartha Academy of General & Technical Education, Vijayawada)
DEPARTMENT OF FRESHMAN ENGINEERING
MONTHLY REPORT NOVEMBER, 2025

FACULTY ACTIVITIES

a) Publications in refereed journals:

SCI Indexed: Nil

Scopus Indexed: Nil

Scopus - Conference Proceedings:

1. Thamarai Selvi M. D; Mandava Vijaya Lakshmi; **Purnachandra Rao Alapati**; Shagufta Parween; S. Suganthi; B. Kiran Bala, published "Innovative Explainable AI System for English Language Learning Applications Using Interactive Feedback and Conceptual Visualization," *2025 International Conference on Intelligent Communication Networks and Computational Techniques (ICICNCT)*, Bidar, India, 05-06 September, 2025, pp. 1-6, ISBN: 979-8-3315-8623-2.
2. M. Vandana , S Leelashree, **Teneti Pullarao** and Pittala Suresh published a paper with title "Site-specific structural and vibrational properties of Zr doped BiFeO₃" in AIP Conference Proceedings. Volume 3361, Issue-1, 030030 (2025). The date of Indexed is 12 November 2025.
3. Gurav, S., **Rangamani. T.P.**, Muthusundar, S.K., Nidhya, M.S., Maram, B. published a paper "Machine Learning Models for Energy Consumption Sensors in Wireless Sensor Networks" pp. 172-177. Proceedings of the International Conference on Modern Sustainable Systems (CMSS-2025) IEEE Xplore Part Number: CFP250Q9-ART; ISBN: 979-8-3315-6510-7. Indexed in Scopus November 2025.

Patents: Nil

b) Projects:

Projects applied:

1. Dr A. Purnachandra Rao applied for a research project titled, "Assessment of PM-Kisan Samman Nidhi's impact on the Welfare of Agriculturists' Families: Micro-level Perceptions from Southern Coastal districts of Andhra Pradesh" under ICSSR Research Projects on "Family and Family Systems in India" on 07th November, 2025.
2. Dr.M.Shyam Sundar has applied for an ICSSR Project titled, "Echoes of the Hearth: An Exploratory Study on the Forgotten Story Cycle of the Tribes of Andhra Pradesh", under the Multi-Disciplinary Studies on Particularly Vulnerable Tribal Groups (PVTGs) of India (2025-26)

c) Books: Nil

d) Book chapter:

1. Kambala Vijaya Kumar, Yalanati Ayyappa, **T. Preethi Rangamani**, Eswar Patnala, Vinay Kumar Dasari and Gudipalli Tejo Lakshmi published book chapter “Sustainable Education in the Age of 5G and 6G Networks: An Analytical Perspective” pp. 69-83 in Wiley Book Decision-Making Techniques and Methods for Sustainable Technological Innovation on 03 October 2025 <https://doi.org/10.1002/9781394242603.ch4>, Indexed in Scopus November 2025.

e) Participation in FDP/ Training/ Workshops/ Conferences/ Seminars/ Webinar etc.

Faculty Development programme:

1. Dr. N. Usha Rani, Dr. P. Pavani, and Dr. S. Lakshmi Tulasi participated in the AICTE-recognized Faculty Development Programme on Outcome-Based Education and Pedagogical Skills, conducted by the Information Management and Emerging Engineering Department in collaboration with NITTTR from 13.10.2025 to 17.10.2025 (one week) at Prasad V.Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada.

Resource Persons:

- 1.Prof.Maitreyee Dutta
- 2.Dr.Jagriti Saini
3. Retd. Prof. P.K.Tulsi
- 4.Dr.Meenakshi Sood
- 5.Dr.Balwinder singh Dhaliwal

2. Dr. P.Padmaja, Mr. K. Kiran Kumar, Assistant Professor, Mr. A.Chandra Sekhara Babu, Assistant Professor Department of FED, P.V.P. Siddhartha Institute of Technology, Vijayawada participated in the One Week International Faculty Development Program on “Innovative Applications of Mathematics (IAM-2025)” organized by the Department of Mathematics in association with Institution’s Innovation Council (IIC), BEC, Bapatla, held from 17-11-2025 to 22-11-2025.

Resource Persons:

- 1.Dr. J. Baskar Babujee, Professor, Dept. of Mathematics, Anna University, Chennai
- 2.Dr. K. N. V. V. V Prasad, Assoc. Prof, Dept. of Mathematics, GGV (Central University) Bilaspur
- 3.Dr. G.S Rao, Prof., Dept. of Mathematics & Statistics, University of Dodoma, Tanzania
- 4.Dr. C.V. P Kumar, Faculty of Mathematics, APEX Maths Excel Center, North Carolina, USA
- 5.Dr. P.V.Sundaranand, Prof&Head, Dept.of Mathematics, Rayalaseema University, Kurnool.

3. Dr. P.Padmaja Assistant Professor Department of FED, P.V.P. Siddhartha Institute of Technology, Vijayawada participated in the six day Faculty Development Program on design synthesis of quantum materials for energy and environment applications organized by the department of Humanities & Science from 17/11/2025 to 22/11/2025 at Aditya college of engineering, Madanpalli.

Resource Persons:

1. Prof.D.Dinakar,Chief advisor Spintronics,AI, Hyderabad.
2. Dr.Shaktive Manavalan, Research Scientist, Dept. of Chemistry, K.I.T. Korea.
3. Dr. D. Pamu,Prof. in centre for Nanotechnology.
4. Dr. P.Lakshmi lavanya, Assistant Professor, PVP Siddharth Institute of Technology participated in the Two - Day Faculty Development Programme (FDP) on "Empowering Youth in Building India's Viksit Bharat 2047: The Role of the Faculty", organised by the Department of Business Administration, Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, in association with the Association of Indian Management Schools (AIMS), Andhra Pradesh Chapter, held during October 17th and 18th, 2025.

Resource persons:

1. Dr. A Adishesha Reddy (Professor & Head of the Department),LBRCE.
2. Dr. Ganesh Rao (P.C.E.T.'s S. B. Patil Institute of Management)

Short term course attended:

1. Dr. M. Prameela, Assistant Professor, PVP Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, (Jawaharlal Nehru Technological University, Kakinada (JNTUK)) participated Short Term Course in “ Digital Citizenship &: Cyber Security (Multi-Disciplinary) under Malaviya Mission Teacher Training Center (MM-TTC) of University Grants Commission (UGC) Organized by Gurunanak Dev University, Amritsar from 22nd - 28th October, 2025

Resource persons:

- 1.Dr. Kamaljit Kaur,Asst.Prof, Gurunanak Dev University, Amritsar
- 2.Dr. HarKirandeep Kaur, Asst.Prof, Gurunanak Dev University, Amritsar
- 3.Dr. Gurvinder Singh, Asst.Prof, Gurunanak Dev University, Amritsar

Training Programs attended:

1. Dr. G. Sreedevi, Dr. Silpa. Mandava, M.Nagaprasad, Dr.G.Raghavendra Ganesh attended Faculty development program on QT-03 and QT-04: Basic Quantum Programming and Technologies Lab during Oct 27 – Nov 19, 20251 jointly organized by EICT academy of MNIT Jaipur and APSCHE. NIRF ranking : 62

Resource Persons:

- 1.Dr. A Ray, Senior Research Scientist, IBM quantum,
- 2.Prof. Kallol Bhattacharya, University of Calcutta, Kolkata
- 3.Dr. Anindita Banerjee, Programme Manager, CDAC Pune
- 4.Dr. Ritajit Majumdar, Research Scientist, IBM Quantum Bengaluru
- 5.Dr. M Rahaman, Research Scientist, IBM Quantum, Bengaluru
- 6.Dr. J Vaithiyashankar, IBM Quantum Educator, CEO Anuthantra
- 7.Ms. Janani A, IBM Quantum Engineer, Bengaluru
- 8.Dr. Aswath Babu, Assistant Professor, IIIT Dharwad
- 9.Mr. A Ananda Raman, Scientific Officer – E, NISER, Bhubaneswar

2. Dr. Sk.Rehena, Mrs.Y.Pavani, Assistant Professor, PVP Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, (Jawaharlal Nehru Technological University, Kakinada (JNTUK)) completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, Maulana Azad National Urdu University, Hyderabad from 19th - 28th November, 2025

Resource persons:

- 1.Prof. Sajid Jamal Dept of Education Aligarh Muslim University
- 2.Prof. Namrata Sharma, Director,UGC-MMTTC, Devi Ahilya Vishwavidyalaya, Indore
- 3.Prof. Abhigyan Bhattacharjee Dept. of Management North Eastern Hill University.
- 4.Dr. D. Thiruvengala Chary Head & Senior Faculty Centre for Management & Behavioral Studies
- 5.Dr. MCR HRD Institute of Telangana, Hyderabad.
- 6.Prof.(Dr.)Preeti Jain, Director, UGC-MMTTC, Kurukshetra University, Kurukshetra

3. Mr. K. Kiran Kumar, Assistant Professor PVP Siddharth Institute of Technology, Kanuru, Vijayawada completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, Mizoram University, Mizoram from 19th - 27th November, 2025.

Resource Persons:

1. Prof .S Venkataramanaiah, Professor, IIM Lucknow
2. Prof BhabenT, Program Director, UGC-MMTTC, Department of Botany,Gauhati University
3. Prof. Jyoti Kumar, Professor, Dept of Commerce, MZU.
4. Dr. Sudhir Kumar Singh, Professor, Delhi University
5. Dr. Kishor Kumar Gajrani, Asst Prof., Dept. of Mechanical Engineering, IIIT, Design and Manufacturing, Kancheepuram, Tamil Nadu.
- 6.Prof .Srinibas Pathi, Department of Public Administration, Mizoram University

4. Dr. A. Purnachandra Rao completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-MMTTC, Maulana Azad National Urdu University, Hyderabad from 3rd – 13th November, 2025.

Resource Persons:

- 1.Prof. Harjeet Kaur Bhatia, Dept of Educational Studies, Jamia Millia Islamia, New Delhi;
- 2.Prof Dr. K Kareemullah, NAARM, Hyderabad;
3. Professor Md. Moshahid, Dept of Education & Training, MANUU, Hyderabad;
4. Aarti Yadav, Dept of Teacher Education; Central University of Haryana;
5. Prof. Arti Nirmal, Dept of English, Banaras Hindu University, (BHU). Varanasi;
- 6.Professor Rajni Singh, IIT (Indian School of Mines),Dhanbad.

Seminars attended:Nil

Workshop Attended:

1. Dr. Sk. Rehena, Dr.M.Rudrama Devi, Dr.P.Lakshmi Lavanya, Dr.A.Purnachandra Rao & Dr.M.Syam Sundar participated in a one-day Workshop on "Strategic Approaches for High Quality Publications" organized by Department of English, Siddhartha Academy of Higher Education (An Institution Deemed to be University), Vijayawada on 29th November, 2025.

Resource Person: Dr. Rajasekaran, VIT.

Papers presented in conferences /seminars: Nil**Webinars Attended: Nil****Guest lectures attended: Nil****f) Organized FDP/ Career Development/ Training/ Workshops/ Conferences/ Seminars/ Webinar etc.**

Seminars Organized: Nil

Guest Lectures organized: Nil**Workshop Organized:**

1. The Department of Freshman Engineering, in collaboration with IQAC, organized a one-week workshop titled *YES!+ (Youth Empowerment & Skills)* from 1.11.2025 to 5.11.2025. A total of 122 students from Civil, Mechanical, and EEE departments participated.

Event coordinators: Dr.S.Lakshmi Tulasi & Dr.T.Preethi Rangamani

h) Certification programs (NPTEL / Coursera / edX etc.): Nil**Student Activities:**

1. I B.Tech students presented a paper at the "Two-Day National Conference on Artificial Intelligence and Machine Learning for Life Sciences (AIMLS)," organized by the Departments of Botany and Biochemistry, S.R.R. & C.V.R. Government Degree College (A), Vijayawada, Andhra Pradesh, in collaboration with the Consortium of Autonomous Colleges, Government of Andhra Pradesh, held on November 14–15, 2025.

The list of participants are as follows

S. No	REG. NO	Branch	Paper Title	Name of the Guide
1	25501A0505	CSE	Leaf nutrient deficiency detection using K- Means clustering and mobile integration	Dr.N.Usha Rani
2	25501A0564	CSE		
3	25501A0511	CSE	AI for Agriculture: offline nutrient deficiency detection	Dr.S.Lakshmi Tulasi
4	25501A0559	CSE		
5	25501A05D6	CSE	AI for pollution monitoring	Dr.P.Pavani
6	25501A05G6	CSE	Ai for waste up cycling	
7	25501A05H9	CSE	AI driven predictive analytics for sustainable crop growth	
8	25501A05I1	CSE	AI driven tool for disease detection, diagnosis and prediction	

2. On the behalf of **Dr. T. Preethi Rangamani, Miss M. Prabhu Saranya** IV B. Tech student has presented a paper entitled “Potassium Recovery from Banana Peel for Enhanced Soil Fertility: IOT based assessment of anatomical and growth responses in tomato plants” in the “Two-Day National Conference on Artificial Intelligence and Machine Learning for Life Sciences (AIMLS),” organized by the Departments of Botany and Biochemistry, S.R.R. & C.V.R. Government Degree College (A), Vijayawada, Andhra Pradesh and Consortium of Autonomous Colleges, Govt. of Andhra Pradesh, during November 14–15, 2025. And got cash Prize of Rs. 1000/ (Second Prize).

3. The I B.Tech students participated in the Art Contest organized by Spoorthi Creative Art School on the occasion of Children’s Day, 14.11.2025. Out of 79 students in the Super Seniors group, K. Pranav Naga Shiva of I B.Tech EEE received a consolation prize.

Event coordinators: Dr.T.Preethi Rangamani & Dr.S.Lakshmi Tulasi

Other information:

- Dr. A. Purnachandra Rao has been selected as Reviewer for the open access SCOPUS Indexed International journal, “Social Sciences & Humanities Open”.
- Dr.P.Lakshmi lavanya has been selected as Reviewer for the open access Web of science International journal, “Scientific research and reports”.

Dr. M. Srilakshmi

(HOD - FE)