

# PRAGATI ENGINEERING COLLEGE

## ELECTRICAL TIMES

VOL # 27

January to June 2020



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### *ABOUT THE DEPARTMENT:*

The **Electrical and Electronics Engineering** Department of **Pragati Engineering College** is fully Equipped with state of art laboratories' and its faculties consists of highly experienced professors, well qualified associate professors and dynamic assistant professors with commitment to give the young minds the very best they deserve.

### *ABOUT THE DEPARTMENT:*

#### **Vision of the Institute:**

“To emerge as a Premier Institution for Technical Education in the Country through Academic Excellence and to be recognized as a Centre for Excellence in Research & Development, catering to the needs of our Country.”

#### **Mission of the Institute:**

“To realize a strong Institution by consistently maintaining State-of-art-infrastructure and building a cohesive, World Class Team and provide need based Technical Education, Research and Development through enhanced Industry Interaction.”

#### **Vision of the Department:**

“To excel in Engineering Education and Research, inculcating professional and social ethics among the students through academic excellence in the field of Electrical & Electronics Engineering.”

**Mission of the Department:**

**M1:** To impart quality Technical Education with better infrastructure for students to make them globally competent and technically strong.

**M2:** To collaborate with industries and academic institutions to enhance creativity and innovation with professional and ethical values.

**M3:** To motivate faculty and students to do impactful research on societal needs and to build team work among them.

**Program Educational Objectives (PEOs):**

**PEO1**

To produce graduates with a strong foundation in the Basic Sciences, Mathematics, Computing and core knowledge in Electrical and Electronics Engineering through high quality Technical Education.

**PEO2**

To prepare graduates for successful and productive engineering careers, with emphasis on technical competency and with an attention to serve the needs of core and associated sectors by developing novel products and solutions for the real-time problems in a socio-economic way.

**PEO3**

To inculcate ethical attitude, honing effective communication skills and managerial skills to work in a multidisciplinary environment as a technocrat/administrator/entrepreneur and to acquire the knowledge for pursuing advanced degrees in Engineering, Science, Management, Research and Development.

**Program Outcomes (POs):**

- 1. Engineering Knowledge:** Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, and Engineering Sciences.
- 3. Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

- 5. Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Program Specific Outcomes (PSOs)**

#### **Engineering Students will be able to:**

**PSO1:** Apply the knowledge of Electrical and Electronics Engineering in Hardware and Software tools for interdisciplinary project management techniques.

**PSO2:** Acquire the knowledge of Electrical and Electronics Engineering to participate in national and international competitive examinations for successful higher studies and employment.

### **ABOUT THE ELECTRICAL ASSOCIATION:**

Association of IE(I) is organizing national level technical event “EXULT”. The national level technical symposium has events like paper presentations, quiz competitions, project model displays and poster presentations from various engineering colleges. We have been organizing “EXULT” for last eleven years. Eminent personalities from various colleges and Universities are invited to act as Judges and made it a grand success.

The main aim of this symposium is to highlight the current status and emerging trends of technology in various topics towards the betterment of industrial research and IT fields. It will be a

great opportunity for students to exchange their experiences through innovative ideas and make them acquired with latest technological trends.

### LIST OF FACULTY MEMBERS:

1. Dr. K. Sathyanarayana	M.Tech, Ph.D, MIE, MIEEE, MISTE, C Eng
2. Dr. G.Naresh	M.Tech, Ph.D, MIEEE, MISTE
3. Dr. R.Satish kumar	M.E, Ph.D
4. Mrs. P. Vijaya Prasuna	M.Tech
5. Mr. S. M. Shariff	M.Tech, M.B.A, MISTE
6. Mr. I. Murali Krishna	M.Tech
7. Mr. I. Srinu	M.Tech
8. Mr. D. Krishna Chaitanya	M.Tech
9. Mr. P. Krishna Chaitanya	M.Tech
10. Mr.S.Ashok reddy	M.Tech
11. Mrs. K. Sandhya Rani	M.Tech
12. Mr. M.N.V.VenkataBrahmam	M.Tech
13. Mr. M. Veera Chandra Kumar	M.Tech
14. Mr. G. Bhavanarayana	M.Tech
15. Mr. M. Mani Shankar	M.Tech
16. Ms.S.Vara Lakshmi	M.Tech
17. Mr. K.Siva Shankar	M.Tech
18. Mr.B.Rajesh	M.Tech
19. Mrs.V.R.V.S.Sai valli	M.Tech
20. Mrs. G. Durga Devi	M. Tech
21. Mrs. Ch. V. V. Manga Lakshmi	M. Tech
22. Mrs. M. Manga Lakshmi	M. Tech
23. Mr. M.Sundar Teja	M. Tech
24. Mr. M.Satya Harish	M. Tech
25. Mr. Ch.Pavan kumar	M. Tech
26. Ms. S.Sravani	M. Tech
27. Mr.B.Rathan kumar	M. Tech

### Faculty Participations:

#### ➤ Paper Publications:

1. **Mrs.Ch.V.V.Manga Lakshmi, Mr.M.Sundar Teja , Mr.M.Satya Harish and Ms.S.Sravani** published paper on“Optimization model of Renewable Source Water Pump Using Fuzzy Logic Controller ” in Pramana Reaserch Journal ,Volume 10, Issue No.1, January-2020, ISSN 2249-2976.
2. **Mr.K.Sivasankar, Mrs.V.R.V.S.Saivalli, and Mr.B.Rathan Kumar** published paper on “Droop Control Strategy for Minimization of Circulating Current in Low-Voltage DC Microgrid” in Pramana Reaserch Journal ,Volume 10, Issue No.1, January-2020, ISSN 2249-2976.
3. **P. Roja Ramani, Sheik Mahaboob Shariff, M. N. V. Venkata Brahmam** published paper on “PV-Hess Based Zeta Converter for BLDC Motor Drive using Fuzzy Logic Controller” in International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-3, January 2020, PP No: 1455-1461
4. **Mrs.G.Durga Devi, Mrs.M.Manga Lakshmi, Mr.B.Rajesh, Mr.Ch.Pavan Kumar** published paper on “An Optimization Technique for Fault Detection on Transmission Line

Using Transient Monitor Index Parameters” in Pramana Reaserch Journal ,Volume 10, Issue No.1, January-2020, ISSN NO: 2249-2976

### ➤ Conferences:

1. **Dr.R.Sathishkumar,Dr.K.Satyanarayana and Mr.M.V.Chandrakumar** participated a TEQIP III Sponsored Two-day National Conference on Electrical and Computer Engineering NCECE-2020. Organized by Department of Electrical Engineering,A.U College of Engineering,Visakhapatnam during 30,31 january,2020. They got **I<sup>st</sup> prize** for paper entitled with “Quasi Z-Source Inverter Design For DC-AC Grid Connected Pv Systems”



2. **Dr.G.Naresh** attended a online conference in online on topic of “NAAC Assessment and accreditation process for autonomous college conference” on 20/4/2020
3. **Ms.S.Varalakshmi** attended a online conference in online on topic of “4-Day International conference on Eradication of Biological & Chemical Weapons” Organized by MIT World Peace University, Pune during 23-26 june,2020

### FDPs / Workshops Attended by the Faculty:

#### ➤ Workshops:

1. **Dr.K.Satyanarayana** attended a **e-workshop** on Electromagnetic and Thermal Simulation of Electric Motors, organized by PSG College of Technology; In Collaboration with Altair India on 07.05.2020
2. **Dr.G.Naresh** attended a **e-workshop** on "Congnitive & Meta cognitive strategies for Knowledge Acquisition ", Faculty of Education dayalbagh Educational Institute from 02.06.2020 to 03.06.2020.
3. **Mrs.K.Sandyarani** attended a **e-workshop** on “Virtual conduct on Electrical Machines Laboratory” from 26.06.2020 to 27.06.2020
4. **Mr.M.Satya Harish** attended a **e-workshop** on “ Latest technologies” organized by skyfi labs From 29.04.2020 to 05.05.2020

#### ➤ FDPs:

1. **Mr. D.Krishna Chaitanya** attended two week Faculty Development Programme awarded with certificate on “Recent Advances in High Voltage Engineering and its Applications” Organized by Department of Electrical and Electronics Engineering, JNTUK during 30.12.2019 to 11.01.2020

2. **Mr. M.Satya Harish** attended two week Faculty Development Programme awarded with certificate on “Recent Advances in High Voltage Engineering and its Applications” Organized by Department of Electrical and Electronics Engineering, JNTUK during 30.12.2019 to 11.01.2020

The following faculty attended the online FDP:(External)-159

S.No.	Name of the Faculty	No of the fdps completed	Certification type
1	Dr. K. Sathyanarayana	4	Participation
2	Dr. G. Naresh	50	Participation
3	Dr.R.Satish Kumar	8	Participation
4	Mrs. K. Sandhya Rani	14	Participation
5	Mr.I.Srinu	1	Participation
6	Mr.M.N.V.V.Brahmam	1	Participation
7	Mr.M.Manishankar	1	Participation
8	Ms.S.Vara Lakshmi	13	Participation
9	Mr.K.Sivasankar	16	Participation
10	Mrs.V.R.V.S.Sai Valli	15	Participation
11	Mr.M.Satya Harish	13	Participation
12	Mr.Ch.Pavan Kumar	4	Participation
13	Mr.B.Rathan Kumar	4	Participation
14	Ms.S.Sravani	15	Participation

### 5 days FDP conducted by EEE department:

### Faculty development programme on e Sim - A Free and Open Source EDA Tool\* (15.06.2019 to 19.06.2020)

#### About the Faculty development programme:

National level Five Day Faculty Development Programme (FDP) on eSim - A Free and Open Source EDA Tool\* on From June 15.06.2020 to 19.06.2020 In Association with IIT Bombay Remote learning through spoken tutorial, organized by Department Electrical & Electronics Engineering, Pragati Engineering College

#### PRAGATI ENGINEERING COLLEGE (Autonomous)

Surampalem, East Godavari (Dist),  
Andhra Pradesh, India



ONE WEEK ONLINE FDP  
on  
eSim - A Free and Open  
Source EDA Tool  
15- 19 June, 2020



Organized by  
Department of EEE  
Pragati Engineering College  
(Autonomous)  
Surampalem, E.G.Dist., A.P., India

In association with  
Spoken Tutorial, IIT Bombay



#### About The FDP

Department of Electrical and Electronics Engineering, Pragati Engineering College (Autonomous) is organizing a one week online Faculty Development Program on “eSim-A Free and Open Source EDA Tool ” in association with Spoken Tutorial, IIT Bombay for the faculty members and research scholars.

#### Course Contents

- Introduction to eSim
- Schematic Creation and Simulation using eSim
- Simulating an Astable Multivibrator using eSim
- Mapping Components with Footprints.
- Setting Parameters for PCB designing using eSim.
- Laying Tracks on PCB using eSim.
- PCB Layout for Astable Multivibrator using eSim

- No registration Fee.
- E-Certificate of Participation will be provided on successful completion.
- Register on or before 30/5/20.

✓ Registration Link

<https://forms.gle/V2yvsrvt16J9kXB66>

#### About Pragati Engineering College:

Pragati engineering college (A) is established in the year 2001, by M/S Gayatri Educational Society in Surampalem, E.G. Dist., A.P. The institution is accredited by NAAC with “A” grade in the year 2015 and attained the autonomous status in 2016. Pragati has been graded as gold in the AICTE-CII survey of industries - linked technical institutions - 2016. It is rated as “A” grade by knowledge mission, Govt. of India. Pragati has been designated as centre of excellence (knowledge exchange centre) by M/S Infosys Ltd. College attained AAA rating for the year 2017 by Careers 360 and has been ranked one among the Top 10 Colleges in A.P. by Silicon India.

#### FDP Coordinators

- Dr.R.Sathishkumar,  
Associate Professor  
[Sathish\\_r@pragati.ac.in](mailto:Sathish_r@pragati.ac.in)  
Phone: 9789 173 222
- Mr.Ch. Pavan Kumar  
Assistant Professor  
[pavankumar.ch@pragati.ac.in](mailto:pavankumar.ch@pragati.ac.in)  
Phone: 88 9794 9696

In this FDP 356 members have participated, out of whom 337 were external participants

(all over India) and 19 are from Pragati Engineering College. Participants included Research Scholars & Academicians from varied background. While designing the structure of the programme it was kept in mind that there are going to be people from different background, so that's why emphasis was given on research methodology as a whole not pertaining to one single field so that maximum can be benefitted out of it.

### Online Quizes

#### **Quizes Attended by the faculty(Internal): 40 nos**

Department of Electrical and Electronics Engineering organized a National-level e-Quiz Competition on "Concepts of Electrical Engineering" on 29th June 2020. In Association with Institute of Engineers(India)

In this Quiz 40 members have participated, out of whom 28 were external participants (all over India) and 12 are from Pragati Engineering College

#### **The following faculty awarded by the e-quiz certificates(External): 92 Nos**

S.No.	Name of the Faculty	No of the Quizes	Certification type
1	Dr. G. Naresh	60	Quiz completion
2	Mrs. K. Sandhya Rani	1	Quiz completion
3	Ms.S.Vara Lakshmi	3	Quiz completion
4	Mr.M.Satya Harish	1	Quiz completion
5	Mr.K.Sivasankar	2	Quiz completion
6	Mrs.V.R.V.S.Sai Valli	4	Quiz completion
7	Ms.S.Sravani	20	Quiz completion
8	Mr.Ch.Pavan Kumar	1	Quiz completion

### IUCEE – Webinars : 231 nos

- **Dr.Gollapalli Naresh**, Professor of EEE and Dean-Administration, Pragati Engineering College (Autonomous), Surampalem, East Godavari District, AP ,**Delivered a webinar** Programme on "Integrating Variable Renewable Energy into the Grid: Key Issues and Solution" scheduled from 02-06-2020 at 12:00 Noon Organized by Chalapathi Institute of Technology, Guntur, Andhra Pradesh
- **The following Faculty received National level/Internataional level webinars(Internal): 229Nos**

S.No.	Name of the Faculty	No of webinars Attended
1.	Dr. K. Sathyanarayana	32
2.	Dr. G. Naresh	84
3.	Dr.R.Satish Kumar	11
4.	Mrs. K. Sandhya Rani	14
5.	Mr.G.Bhavanarayana	3
6.	Mr.M.N.V.V.Brahmam	2
7.	Mr.M.Manishankar	1
8.	Ms.S.Vara Lakshmi	8
9.	Mr.K.Sivasankar	9
10.	Mrs.V.R.V.S.Sai Valli	8

11.	Mr.M.Satya Harish	19
12.	Mr.Ch.Pavan Kumar	8
13.	Mr.B.Rathan Kumar	9
14.	Ms.S.Sravani	22
<b>Total</b>		<b>230</b>

### Certification courses : 64 nos

#### a) Coursera L4G Solutions Private ltd: 48 nos

S.No.	Name of the Faculty	Name of the Course	Certification type
1.	Dr. K. Sathyanarayana	1.Towards the future of Higher Education"	Course Completion
2.	Dr. G. Naresh	1.Data science for beginners	Course Completion
3.	Dr.R.Satish Kumar	1.Learning How to learn	Course Completion
4.	Mrs. K. Sandhya Rani	24 Courses from Coursera L4G	Course Completion
5.	Ms.S.Vara Lakshmi	1.Learning How to learn 2.Electric power systems 3.Learning to teach online 4.Introduction to psychology	Course Completion
6.	Mr.K.Sivasankar	1.Electric power systems 2.Learning to teach online	Course Completion
7.	Mrs.V.R.V.S.Sai Valli	1.Introduction to psychology 2. Electrical power systems 3. Learning to teach online 4. science of well being 5. Successful negotiation: Essential strategies and skills	Course Completion
8.	Ms.S.Sravani	13 Courses from Coursera L4G	Course Completion

The following Faculty received MHRD/online session certificates: 16 Nos

S.No.	Name of the Faculty	No of the sessions Attended
1	Dr. G. Naresh	12
2	Ms.S.Vara Lakshmi	1
3	Mr.M.Satya Harish	3
<b>Total</b>		<b>16</b>

### PLACEMENTS:

S.NO	ROLL NO	NAME OF THE STUDENT	SELECTED COMPANY
1.	16A31A0215	Palavalasa Chandrika	HGS
2.	16A31A0219	Bandana Sankar	
3.	16A31A0231	Kanuri Ramakrishna	
4.	16A31A0234	Malladi Satya Kalyan Varma	
5.	16A31A0268	Valluri Surekha Raja Rajeswari	
6.	16A31A0282	Chintada Sai Praveen	
7.	16A31A0299	O Vishnu Chakra Datta	
8.	17A35A0210	Matta Dorababu	
9.	17A35A0226	P L N D B Chandra Lokesh Kumar	
10.	16A31A0215	Palavalasa Chandrika	Teleperformance



11.	16A31A0238	Mohammed Aswer Mohiddin	Just dial
12.	16A31A0268	Valluri Surekha Raja Rajeswari	
13.	16A31A0251	Talari Sripavan	
14.	17A35A0218	Adapa Venkatesh	
15.	17A35A0225	Pendem Ram Prasad	

### **Academic Toppers:**

#### **Academic Toppers of B.Tech I Semester End Examinations - October 2019**

Department of EEE						
S.No	Branch	Year	Rollno	Student Name	SGPA	Rank
1	EEE-A	IV-I	16A31A0218	ALLU SAI VENKATASRI	9.45	1
2	EEE-A	IV-I	16A31A0251	TALARI SRIPAVAN	9.45	2
5	EEE-B	IV-I	16A31A0260	KOTANA DURGA BHAVANI	9.45	1
6	EEE-B	IV-I	16A31A0263	PABBINEEDI VEERA MANIKYA GANGA BHAVANI	9.09	2
1	EEE-A	III-I	17A31A0208	MAVIREDDY VIJAYA LAKSHMI	9.57	1
2	EEE-A	III-I	17A31A0219	VANAPARTHI PRATYUSHA	9.57	2
5	EEE-B	III-I	17A31A0298	MANDAPALLI SAM MOSES SASTRY	9.43	1
6	EEE-B	III-I	17A31A0269	PERLA AMULYA	9.43	2
1	EEE-A	II-I	18A31A0233	KOLLAPUREDDY SATYA NUKESH	9.86	1
2	EEE-A	II-I	19A35A0207	PATRA SAI KISHORE	9.59	2
3	EEE-B	II-I	18A31A0282	ANKAM DURGA SATYA SAI KIRANKUMAR	9.45	1
4	EEE-B	II-I	18A31A0257	BANDARU SATYA AKHILA	9.32	2

### **Student Achievements in various activities:**

#### **Project Presentation idea Presented:**

MHRD AICTE mega online challenge “**SAMADHAN**”

Students of III EEE ,**A.Sai Hanvesh ,K.Sai Karthik , K.Ravindra Sai , Ch.V.D Krishna Vamsi and T.Bhavani** Presented Project Presentation/idea on **Smart Control of Corona Pandemic** organized MHRD AICTE online Challenge “ SAMADHAN” on 13/4/2020 by Institution of Engineers (India) A.P State Chapter

<https://www.youtube.com/watch?v=BRmAlOrz21Y&feature=youtu.be>



❖ Project idea in SIH (Smart India Hackthon):48

S.No	Event	Title	Student(s)name	Class	Name of the event & venue	Date(s)
1.	Project/Idea	Smart Control of Traffic Rule Violation	K. Ravindra Sai (Team Leader)	III-II-A	Smart India Hackathon 2K20	Jan 2020
2.	Project/Idea	Smart Control of Traffic Rule Violation	K. Sai Karthik	III-II-A	Smart India Hackathon 2K20	Jan 2020
3	Project/Idea	Smart Control of Traffic Rule Violation	Ch. V.D.Krishna Vamsi	III-II-A	Smart India Hackathon 2K20	Jan 2020
4	Project/Idea	Smart Control of Traffic Rule Violation	P.Sai Hanvesh	III-II-A	Smart India Hackathon 2K20	Jan 2020
5	Project/Idea	Smart Control of Traffic Rule Violation	K.Sai Manikanta	III-II-A	Smart India Hackathon 2K20	Jan 2020
6	Project/Idea	Smart Control of Traffic Rule Violation	T.Bhavani	III-II-A	Smart India Hackathon 2K20	Jan 2020
7	Project/Idea	Floating Trash Cleaner	J. Rama Lakshmi (Team Leader)	III-II-A	Smart India Hackathon 2K20	Jan 2020
8	Project/Idea	Floating Trash Cleaner	K.Snigdha	III-II-A	Smart India Hackathon 2K20	Jan 2020
9	Project/Idea	Floating Trash Cleaner	M.Vidya	III-II-A	Smart India Hackathon 2K20	Jan 2020
10	Project/Idea	Floating Trash Cleaner	S. Sita Maha Lakshmi	III-II-A	Smart India Hackathon 2K20	Jan 2020
11	Project/Idea	Floating Trash Cleaner	V. Pratyusha	III-II-A	Smart India Hackathon 2K20	Jan 2020
12	Project/Idea	Floating Trash Cleaner	Y. Bhavya Sri	III-II-A	Smart India Hackathon 2K20	Jan 2020
13	Project/Idea	PLC Based Accident Prevention	T.Sruthi (Team leader)	III-II-A	Smart India Hackathon 2K20	Jan 2020
14	Project/Idea	PLC Based Accident Prevention	K.S.L.Akanksha	II-II-A	Smart India Hackathon 2K20	Jan 2020
15	Project/Idea	PLC Based Accident Prevention	K.Naga Durga	II-II-A	Smart India Hackathon 2K20	Jan 2020
16	Project/Idea	PLC Based Accident Prevention	K.Satya Nukesh	II-II-A	Smart India Hackathon 2K20	Jan 2020

17	Project/Idea	PLC Based Accident Prevention	P.Sai Kishore	II-II-A	Smart India Hackathon 2K20	Jan 2020
18	Project/Idea	PLC Based Accident Prevention	S.Venkat	II-II-A	Smart India Hackathon 2K20	Jan 2020
19	Project/Idea	Smart Fertility Monitoring System	G. Venkata Rama Lakshman (Team Leader)	II-II-A	Smart India Hackathon 2K20	Jan 2020
20	Project/Idea	Smart Fertility Monitoring System	A. Tarun Sai	II-II-A	Smart India Hackathon 2K20	Jan 2020
21	Project/Idea	Smart Fertility Monitoring System	P.S.S.D.Anil Kumar	II-II-A	Smart India Hackathon 2K20	Jan 2020
22	Project/Idea	Smart Fertility Monitoring System	K.Umar Satish Kumar	II-II-A	Smart India Hackathon 2K20	Jan 2020
23	Project/Idea	Smart Fertility Monitoring System	P. Ramya Sri	II-II-A	Smart India Hackathon 2K20	Jan 2020
24	Project/Idea	Smart Fertility Monitoring System	G. Satya Meghana	II-II-A	Smart India Hackathon 2K20	Jan 2020
25	Project/Idea	Power Theft Detection	K.venkatesh (Team Leader)	II-II-B	Smart India Hackathon 2K20	Jan 2020
26	Project/Idea	Power Theft Detection	D.Prem Kumar	II-II-B	Smart India Hackathon 2K20	Jan 2020
27	Project/Idea	Power Theft Detection	Md.Javeed	II-II-B	Smart India Hackathon 2K20	Jan 2020
28	Project/Idea	Power Theft Detection	Ch.Siva Rama Krishna	II-II-B	Smart India Hackathon 2K20	Jan 2020
29	Project/Idea	Power Theft Detection	R.V.V.Satyanarayana	II-II-B	Smart India Hackathon 2K20	Jan 2020
30	Project/Idea	Power Theft Detection	Y.Naga Lashmi Pranathi	II-II-B	Smart India Hackathon 2K20	Jan 2020
31	Project/Idea	Breathe Easy	T.N.S.Amrutha (Team)	III-II-B	Smart India Hackathon 2K20	Jan 2020
32	Project/Idea	Breathe Easy	B.Kalyani	III-II-B	Smart India Hackathon 2K20	Jan 2020
33	Project/Idea	Breathe Easy	M.Pratyusha	III-II-B	Smart India Hackathon 2K20	Jan 2020
34	Project/Idea	Breathe Easy	Y.Akhila	III-II-B	Smart India Hackathon 2K20	Jan 2020

35	Project/Idea	Breathe Easy	R.Shalini	III-II-B	Smart India Hackathon 2K20	Jan 2020
36	Project/Idea	Breathe Easy	M.Padma Sai Bhavani	III-II-B	Smart India Hackathon 2K20	Jan 2020
37	Project/Idea	Soldier Strap	D.Vamsi (Team Leader)	II-II-A	Smart India Hackathon 2K20	Jan 2020
38	Project/Idea	Soldier Strap	V.Varshita	II-II-A	Smart India Hackathon 2K20	Jan 2020
39	Project/Idea	Soldier Strap	P.Udaya sree	II-II-A	Smart India Hackathon 2K20	Jan 2020
40	Project/Idea	Soldier Strap	D.Lokesh	II-II-A	Smart India Hackathon 2K20	Jan 2020
41	Project/Idea	Soldier Strap	M.V.V.Rama Krishna	II-II-A	Smart India Hackathon 2K20	Jan 2020
42	Project/Idea	Soldier Strap	N.Surya Kiran	II-II-A	Smart India Hackathon 2K20	Jan 2020
43	Project/Idea	MAN WILD LIFE CONFLICT	K. Aditya Sri Harsha (Team Leader)	II-II-A	Smart India Hackathon 2K20	Jan 2020
44	Project/Idea	MAN WILD LIFE CONFLICT	D. Ram Mohan	II-II-A	Smart India Hackathon 2K20	Jan 2020
45	Project/Idea	MAN WILD LIFE CONFLICT	V. Manideep	II-II-A	Smart India Hackathon 2K20	Jan 2020
46	Project/Idea	MAN WILD LIFE CONFLICT	A. Sri Ram Pavan	II-II-A	Smart India Hackathon 2K20	Jan 2020
47	Project/Idea	MAN WILD LIFE CONFLICT	T.Sri Suman Pravarsha	II-II-A	Smart India Hackathon 2K20	Jan 2020
48	Project/Idea	MAN WILD LIFE CONFLICT	N.Durga Santhoshi Mata	II-II-A	Smart India Hackathon 2K20	Jan 2020

### **Paper Publications :50**

1. P.Nancy Rachel, D.Sophia,G.Sandhya Rani, I.JahnaviRishika, P.Sai Annapurna of IV EEE-A published paper entitled with “ IoT Based Relay Operated Water Quality Monitoring System” in International Journal of Management, Technology And Engineering (IJMTE), ISSN 2249-7455,Volume IX, Issue V, April 2020.
2. Jagadeeswari Bolli,Sai Anusha Charapu ,Monisa Dangeti & Preethi Mediseti of IV EEE-A published paper entitled with “IR Sensor Based Electric Locomotives for Obstruction of Collisions” in Global Journal Of Engineering Science And Researches(GJESR) [Bolli , 7(4): April 2020] ISSN 2348 – 8034,DOI- 10.5281/zenodo.3757005 , Impact Factor- 5.070

3. Y.Yogitha Chowdary, B.Sridevi,Ch.Sreelaxmi,P.Chandrika of IV EEE-A published paper entitled with “ SAFETY ARMBAND” in International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 7, Issue 2, April 2020, pp no. 503-509.
4. Allu Sai Venkatasri, I Prabath Chowdary, Nama Anil Kumar, Yepuri Rushi Pavan and Nagadamudi Sai Surya of IV EEE-A published paper entitled with “Solar Based Smart Traffic Control System And Traffic Analyzer System Using IOT” IJRAR April 2020, Volume 7, Issue 2 www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138)
5. A.Vinil Sai Manikanta, CH.Nanda Kumar, MD.Sajid Abbas, MD.Aswar Mohiddin,N.Pavan Teja of IV EEE-A published paper entitled with “Iot Based Smart City Using Sensors”, International Journal of Management, Technology And Engineering, Volume X, Issue IV, APRIL/2020, ISSN NO : 2249-7455
6. B.Shankar, B.V.D.Prasad, B.Vijaykumar, G.Maniswararao, J.Yaswanthkumar of IV EEE-A published paper entitled with “Iot Based Power Sharing And Over Load Indication”, International Research Journal Of Engineering And Technology (IRJET) E-ISSN: 2395-0056,Volume: 07 ISSUE: 04 | APR 2020, P-ISSN: 2395-0072
7. Gowtham Sai Gadde, Sai Vivek Pidaparathi, Naveen kesavarapu and R. Suresh Kumar of IV EEE-A published paper entitled with “Google Assistant based Home Automation using Cloud” in International Journal of Management, Technology And Engineering (IJMTE), ISSN 2249-7455,Volume X, Issue 4, April 2020.
8. A.Sai Jyothi, A.Ramya,B.Roopaa Sree, P.Sri Chandralekha, S.J.L.N.S.Keerthan of IV EEE-A published paper entitled with “Agriculture Crop Monitoring Using Iot With Voice Playback For Pesticide Usage”, In Iaetsd Journal For Advanced Research In Applied Sciences , Volume VII, Issue IV, April/2020, ISSN NO: 2394-8442
9. M Satya Kalyan Varma, Mogal Sahil, P Sai Venkata Ajay , Potta Venkatesh and Gunnabathula Kishore of IV EEE-A published paper entitled with “GUI Based Electrical Load Control Using Matlab” in Pramana Research Journal ,Volume10,Issue4, April/2020 ,ISSN NO: 2249-2976
10. Bongu Surendra Rao, Erugula Prasanth, Reddi Siva SaiTeja, Yella Sandeep and Matta Dorababu of IV EEE-A published paper entitled with “Smart Trolley Using Rfid And Zigbee” in journal of Emerging Technologies and Innovative Research (JETIR) April 2020, Volume 7, Issue 4 www.jetir.org (ISSN-2349-5162)
11. Nukathattu Vinod, P Chandra Naga Prasad, Peddada Sai Ganesh, Reddy Suresh Kumar and Vasamsetti Gopala Krishna of IV EEE-A published paper entitled with “Multi Input Converter For Hybrid Vehicle” in Pramana Research Journal Volume 10, Issue 5, 2020 Issn No: 2249-2976
12. Adireddi Krishna Chaitanya, Mallula Harish, Mediseti Raj Kumar, G Rajavenkata Anil Kumar and Gunda Prakasam of IV EEE-A published paper entitled with “Real Time Monitoring Of Power Consumption And Load Demand Control” in International Journal For Innovative Research In Multidisciplinary Field Issn: 2455-0620 , Volume -6, Issue - 4, Apr – 2020
13. Bokka Satya Satwik, Kanuri Rama Krishna, S Harikrishna, Talari Sri Pavan, A Venkata Tarun Kumar and Seeram Geetha Krishna of IV EEE-A published paper entitled with “Railway Chain Accessor Detecting System Based On Fingerprint Module” in JETIR April 2020, Volume 7, Issue 4 www.jetir.org (ISSN-2349-5162)
14. Jujjavarapu Yamuna, Pirla Amulya, A S Y V G P S A Karthik, N Ram Kumar and S Emmanuel of IV EEE-B published paper entitled with “IoT Based Hrv Monitoring System” in International

- Journal of Management, Technology And Engineering Volume X, Issue IV, APRIL/2020  
ISSN NO : 2249-7455
15. Kapaganti Ratna Harika, Kotana Durga Bhavani, Peddireddy Dhana Lakshmi, Vithanala Sai Durga and Yeliseti Ramya Vanaja of IV EEE-B published paper entitled with “Speed Control Of Electrical Vehicle At Restricted Areas Using Gsm And Light Dimming” in IJRAR May 2020, Volume 7, Issue 2 www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138)
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  17. Mamidi Srinivas, Voleti Nani, Pendem Ram Prasad, K Venkata Durga Prasad and Konda Santhosh of IV EEE-B published paper entitled with “Grid Parameters Monitoring With Zigbee Communication” in Pramana Research Journal Volume 10, Issue 4, 2020, ISSN NO: 2249-2976
  18. Annamdevula Pardhasaradhi, Atti Ram Sai Charan, B Satya Sai Praveen, O Vishnu Chakra Datta and Puppala Ramesh Paul of IV EEE-B published paper entitled with “Microcontroller Based Traffic Control System Using Rfid And Zigbee” International Journal of Management, Technology And Engineering Volume X, Issue IV, APRIL/2020,ISSN NO : 2249-7455
  19. Adapa Venkatesh, Bandi Ram Kireeti, P L N D C Lokesh Kumar and Surla Ramu of IV EEE-B published paper entitled with “Temperature Sensors Based Automatic Control And Load Sharing Of Transformers” International Journal of Management, Technology And Engineering Volume X, Issue IV, APRIL/2020 ,ISSN NO : 2249-7455
  20. Mulaparathi Haritha, P V Manikya Ganga Bhavani, Vasamsetti Supraja, Mungi Vijaya Durga and S Lova Brahma Teja of IV EEE-B published paper entitled with” Iot Based Load Monitoring And Res Management Using MPPT” International Journal of Management, Technology And Engineering Volume X, Issue VII, JULY/2020,ISSN NO : 2249-7455
  21. T.Ch.Bhanu Teja,K.Sai Rakesh, P.Sri Raghavendra,R.S.V.Shivaram of IV EEE-B published paper entitled with “Microcontroller Based DC Motor Fed Robot for Path Detection” in Pramana Research Journal ,Volume 10, Issue 4, 2020, ISSN NO: 2249-2976
  22. P. Vennela,P. Mounika Priya,V. Surekha Rajarajeswari,G. Radhika,A. Pujitha Sumitra Sindhu of IV EEE-B published paper entitled with “Assistive Stick For The Visually Impaired” in International Journal of Management, Technology And Engineering, Volume X, Issue IV, APRIL/2020, ISSN NO : 2249-7455
  23. Yelaka Sri Sessa Sai,Achanta S S V J Krishnavamsi,Telasula Veerababu,Garimella Venkata Surya Bharat of IV EEE-B published paper entitled with “Intelligent Safety Warning and Alert System for Car Driving” in International Journal of Management, Technology And Engineering, Volume X, Issue IV, APRIL/2020, ISSN NO : 2249-7455
  24. G. Srinivas, G. M. Raju , D. Ramesh, S. Sivaram of IV EEE-B published paper entitled with “Water A.T.M Based R.F.I.D and G.S.M” in International Journal For Innovative Research In Multidisciplinary Field , ISSN: 2455-0620 Volume - 6, Issue - 4, Apr – 2020
  25. S. Harsha kumar, V. Bhanu venkatesh, P. Santhosh kumar, S. Balaji, S. Lakshmu naidu of IV EEE-B published paper entitled with “Pyro Electric Infrared Sensor Based Home Security System” in Global Journal Of Engineering Science And Researches, April 25, 2020, ISSN- 2348 – 8034,IMPACT FACTOR- 5.070
  26. Mutyala Kartik, Madakam Ajay Dora, Bommadi Satya Trimurtulu, Majji Ram Praveen and Borra Sai Krishna of IV EEE-B published paper entitled with “Automatic Active Phase Selector for Single

- Phase Load from Three Phase Supply” in International Journal For Innovative Research In Multidisciplinary Field,ISSN: 2455-0620 , Volume - 6, Issue - 4, Apr – 2020
27. Chavala Venkatesh, M S S Sai Vasanth Yadav, Shaik Mohammad Basheer, A Sri Swamy Srinivas Manoj and K Vijaya Ramaraju of IV EEE-B published paper entitled with “Wireless Power Theft Monitoring System Using GSM in International Journal of Management, Technology And Engineering Volume X, Issue IV, APRIL/2020,ISSN NO : 2249-7455
  28. K Venkata Durga Prasad, K Durga Sri Sai Prasad, Pulidindi Nikhil Roy and Kondapu Ravi Ganesh of IV EEE-B published paper entitled with “Construction Of Central Control Unit For Irrigation Water Pumps Cost Effective Method To Control Entire Villagers Water Pumps With User Level Authentication” in International Journal of Management, Technology And Engineering, Volume X, Issue IV, APRIL/2020 ISSN NO : 2249-7455
  29. Boddeti Priyanka, Kukkala Ramya, Nallamilli Sushmareddy, Sathi Keerthi Priyanka, Utukuri Mounika Of III EEE –A published Paper Entitled With “Solar Based Laser Security System” In International Journal Of Management, Technology And Engineering, Issn No : 2249-7455, Volume X, Issue Iv, Issue 15-04-2020, Page No:102-108.
  30. Mavireddy Vijaya Lakshmi, Mutya Sai Srikari, Ch Dharani Chowdary, Gandharapu Vishali, Teki Bhavani Of III EEE –A published Paper Entitled With “Audio Transmission Through Lifi Technology” In International Journal Of Research And Analytical Reviews, E-Issn 2348-1269, P-Issn 2349-5138, Volume 7, Issue 3, Issue 01-07-2020, Page No:512-520.
  31. Jyothula rama lakshmi, kakarlapudi snigdha, magapu vidya, vanaparthi pratyushayendamuri bhavyasri of III EEE –A published paper entitled with “Home Automation System Based On Aurdino” in Global Journal Of Engineering Science And Researches, Issn 2348 – 8034, volume 7, issue 4, issue 30-04-2020, page no:39-42.
  32. K Sirisha, M Sruti, S Naga sri hari priya, V S S V Phanisahitya of III EEE-A published paper entitled with “Automatic Solar Street Light Dimmer Controller Using Arduino” in International Journal Of Management, Technology And Engineering, ISSN no: 2249-7455, volume x, Issue iv, Issue 02-05-2020, page no:456-463.
  33. Immandi Sindhu, Peddinti V L Sai Sruthi, Sula Sita Mahalakshmi, Vennap Satyavathi of III EEE-A published paper entitled with “Stress Meter Based On Human Stress” in pramana research journal, issn no: 2249-2976, volume 10, issue 4, issue 24-04-2020, page no:127-136.
  34. Ch. Sai Manikumar, Ch Sai Sandeep, E Nitish kumar, K Raja, V Srihari of III EEE –A published paper entitled with “Automatic Irrigation System Using Arduino” in International Journal Of Management, Technology And Engineering, Issn no: 7021-2008, Volume 10, Issue 4, issue 21-04-2020, page no:152-162.
  35. G Jagadish, J Yogi naga sai ram, P V Siva sai ram, R Abhirama sasidhar, V Sai nandan varshith of III EEE-A published paper entitled with “Four Way Traffic Signal Circuit Using 555 Timer” in Journal Of Emerging Technologies And Innovative Research, Issn : 2349-5162, volume 7, issue 4, issue 22-05-2020, page no:1587-1592.
  36. B Surya sai raja, Ch Venkata srinivas, R Subhash, V Satya ravi, y srinivas manohar of III EEE–A published paper entitled with “Dc Motor Based Automatic Temperature Controller Using Thermistor “ in International Journal Of Management, Technology And Engineering, Issn no : 2249-7455, volume x, issue v, issue 22-05-2020 , page no:142-149
  37. Kasi rama krishna, K Sai manikanta, K Sai karthik, P Sri rama sai hanvesh, T Kiran teja of III EEE-A published a paper entitled with “Wifi Based Home Automation” in International

- Journal Of Research And Analytical Reviews e-issn 2348-1269, p- issn 2349-5138, volume 7, issue 2, issue 18-04-2020 ,page no:45 to 57.
38. Kota ravindra sai, Ch V D krishna vamsi, V Vijay kumar, B Pradeep kumar, P.Sudheer of III EEE-A published paper entitled with “Dc Motor Speed Control Using Pwm Technique” in Global Journal Of Engineering Science And Researches Issn 2348 – 8034,volume 7, issue 4,issue 25-04-2020, page no:27-31.
  39. L Lokabhiram, T China babu, T Kashyap kumar, V Siva sai phani, A.Jagan mohan of III EEE –A published paper entitled with “Water Wheel Free Energy Device” in pramana research journal ,issn no:2249-2976,volume 10,issue4,issue 04-04-2020, page no:1757-1760.
  40. M Pavan kumar, R Raja, R Akhil ganesh, K Venkata reddy, V Sai Bhargav of III EEE-A published paper entitled with “Smoke Detector Alarm” In Pramana Research Journal Issn no: 2249-2976volume 10,issue4,issue 25-04-2020, page no:152-162.
  41. D Ch likhit kumar, G Satya subhash, K K Chowdary, K Uma sai, V Akhil of III EEE-A published paper entitled with “Brake Failure Indicator” in pramana research journal, issn no:2249-2976,volume 10,issue5,issue 22-05-2020,page no:156-164.
  42. M Hari teja, M Sai surya sankar sandeep, M Govardhan reddy, P. Ganga venkata phanindra Y,S.Saisatish of III EEE –A published paper entitled with “Simple Low Power Inverter Circuit” in International Journal Of Management, Technology And Engineering Issn no: 2249-7455,volume x, issue iv, issue 18-04-2020,page no:146-152.
  43. G. Lakshmi samyuktha, S Padma manaswini, Tushara Mantripragada, Y Sai Ram Akhila, T Naga Sai Amrutha of III EEE –B published Paper Entitled With “Road Reflector Light Using Ldr” in International Journal Of Management, Technology And Engineering , Issn no : 2249-7455 ,volume x, issue iv, issue 22-04-2020, page no: 280-283.
  44. B Kalyani, B Vaishnavi Devi, M Yamini Satya Sri, Nelapudi Mounika Srivodugu Manaswi of III EEE-B a published paper entitled with “Anti Theft Baggage Detection” in International Journal Of Research And Analytical Reviews, E-Issn 2348-1269, p- issn 2349-5138, volume 7, issue 2, issue 14-04-2020, page no: 768-770.
  45. B Lakshmi Tanmai, Kandavalli Rishitha, M V Sai Sri Pratyusha, Shaik Khamur Unnisa, M Padma Sai Bhavani of III EEE-B published paper entitled with “Temperature Controlled Fan Using Arduino” in Pramana Research Journal, Issn No:2249-2976, Volume X, Issue iv, issue 20-04-2020, page no: 86-92.
  46. P Yoga Bhavishya, P Venkata Sai Nikitha, Perla Amulya, P S V L Suneetha ,Rampa Shalini of III EEE-B published paper entitled with “Short Circuit Indicator” In International Journal Of Research And Analytical Reviews ,E-Issn 2348-1269, P- Issn 2349-5138,Volume 7, Issue 2,Issue 23.4.2020, Page No: 771-776.
  47. B Sai Kumar, G Vijay Kumar,G Sai Krishna,J Veera Sri Nanda,M Krishna Kanth,R Sai Sunandh of III EEE-B published paper entitled with “Password Circuit Breaker Using Arduino” in Pramana Research Journal,Issn no:2249-2976,Volume 10, Issue 4, Issue 21.4.2020, Page No:108-113.
  48. J Sai Vathsav, S Dattatreya, T Krishna babu naidu , V Naga saikiran,V Yadava ramesh of III EEE -B published paper entitled with “Electric Power Generation Using Speed Breakers” In International Journal Of Management, Technology And Engineering,Issn No : 2249-7455,Volume X, Issue Iv, Issue 28.4.2020, Page No: 236-240.



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50. Burra Surya Sai Raja, Ch Venkata Srinivas, R Subhash ,V Satya Ravi, Y Srinivas Manohar, Daniel Kevin Edwin of III EEE-B published paper entitled with “Smart Controlled Electric Wheel Chair” In International Journal Of Management, Technology And Engineering, Issn No : 2249-7455, Volume X, Issue Iv, Issue 28-04-2020, Page No: 328-335.

### Sports:

#### **Achievements in Sports & Games: 23 nos**

- **List of winner students participated in Cricket held at pragati engineering college : IV Year 14 Students**

Volley ball				
S.NO	Roll Number	Name of the student	Year	Result
1	16A31A0287	G. Srinivas	IV	Winner
2	17A35A0228	Puppala Ramesh Paul	IV	Winner
3	17A35A0233	Vujjina Bhanu Venkatesh	IV	Winner
4	16A31A0242	N .Chandramouli	IV	Winner
5	16A31A0280	Ch.Venkatesh	IV	Winner
6	16A31A0278	B.Sai Krishna	IV	Winner
7	16A31A02A0	Pandiri Santosh Kumar	IV	Winner
8	16A31A0216	A.V.Tarun Kumar	IV	Winner
9	16A31A0230	J Yaswanth Kumar	IV	Winner
10	16A31A0245	P Saiganesh	IV	Winner
11	16A31A0283	Domala Ramesh	IV	Winner
12	16A31A02B1	Achanta S S V J Krishnavamsi	IV	Winner
13	16A31A0243	Nukathattu Vinod	IV	Winner
14	16A31A0293	Majji Ram Praveen	IV	Winner



- List of students participated in Athletics 100 meters run held at pragati engineering college.

100 METERS RUN				
S.NO	Roll Number	Name of the student	year	Result
15	17A31A0238	M.S.S.S.Sandeep	III	Gold

- List of students participated in Athletics 200 meters run held at pragati engineering college.

200 METERS RUN				
S.NO	Roll Number	Name of the student	year	Result
16	17A31A0238	M.S.S.S.Sandeep	III	silver



- List of students participated in held Relay (4x100) at pragati engineering college.

Relay (4x100)				
S.NO	Roll number	Name of the student	year	RESULT
17	17A31A0259	Balireddy Kalyani	III	Gold
18	17A31A0271	Rampa Shalini	III	Gold
19	17A31A0276	Yalla Sai Ram Akhila	III	Gold
20	17A31A04--	N.Lalitha	III	Gold



- List of students participated in held Relay (4x100) at pragati engineering college.

Relay (4x100)				
S.NO	Roll number	Name of the student	year	RESULT
21	17A31A0203	Jyothula Rama Lakshmi	III	Silver
22	17A31A0215	S Naga Sri Hari Priya	III	Silver



➤ List of students participated in Athletics 200 meters run held at Pragati Engineering College.

200 METERS RUN				
S.NO	Roll Number	Name of the student	year	Result
23	17A31A0259	Balireddy Kalyani	III	Gold



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 G. Vijay Kumar (III EEE-283)  
 B.Y. Krishnasri (II EEE-259)  
 K. Satya nukesh (II EEE-233)