



G PULLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

KURNOOL, ANDHRA PRADESH - 518007



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING ORGANIZES

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM ON IoT AND MACHINE LEARNING

RESOURCE PERSONS



Dr. D V L N SOMAYAJULU
DIRECTOR
IIIT - DM, KURNOOL



Dr. K V ESWARAMOORTHY
ASSISTANT PROFESSOR, ECE
IIIT - DM, KURNOOL



SRI P V S MARUTI RAO
FOUNDER & DIRECTOR OF
VIDCENTUM R&D, HYDERABAD



Dr. ATUL NEGI
PROFESSOR AT SCHOOL OF CIS
UNIVERSITY OF HYDERABAD



Dr. SANJAYA KUMAR PANDA
ASSISTANT PROFESSOR, CSE
NIT WARANGAL

NO REGISTRATION FEE

REGISTER HERE @ bit.ly/IoT_ML_reg

26th JUNE - 30th JUNE 2020

10:30 AM - 12:30 PM

ABOUT COLLEGE



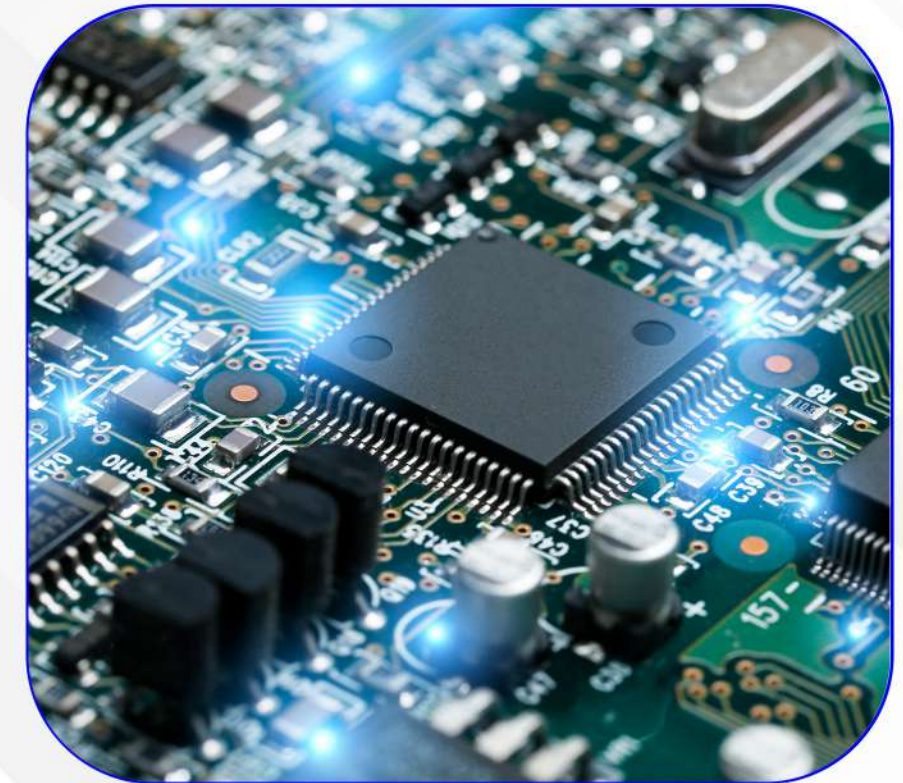
G PULLA REDDY ENGINEERING COLLEGE IS THE BRAINCHILD OF LATE SRI G.PULLA REDDY, THE RENOWNED PHILANTHROPIST AND A GREAT HUMANIST. ESTABLISHED IN 1984-85, IT IS ONE OF THE EARLIEST PRIVATE ENGINEERING COLLEGES IN ANDHRA PRADESH STATE. GPREC HAS BEEN FUNCTIONING AS AN AUTONOMOUS INSTITUTION SINCE 2006. THE COLLEGE IS BEING MANAGED BY G PULLA REDDY CHARITES TRUST, HYDERABAD. THE TRUST WAS INSTITUTED BY LATE SRI. G PULLA REDDY GARU IN 1975 WITH THE MOTTO OF RENDERING SERVICE TO THE SOCIETY.

ABOUT DEPARTMENT



THE ECE DEPARTMENT WAS ESTABLISHED IN THE ACADEMIC YEAR 1984-85 WITH AN INTAKE OF 40 AND CURRENTLY WITH 180 REGULAR AND 36 LATERAL ENTRY STUDENTS. THE DEPARTMENT IS ALSO OFFERING A POST GRADUATE PROGRAMME WITH THE SPECIALIZATION OF VLSI EMBEDDED SYSTEMS WITH AN INTAKE OF 18 STUDENTS. THE DEPARTMENT HAS HIGHLY QUALIFIED FACULTY HAVING SPECIALIZED IN DIVERSIFIED AREAS OF TECHNOLOGY LIKE COMMUNICATIONS, SIGNAL PROCESSING, MICROELECTRONICS, MICROPROCESSORS, INSTRUMENTATION AND CONTROL AND DIGITAL ELECTRONICS. THE DEPARTMENT IS WELL EQUIPPED AND HAS EXCELLENT LABORATORY FACILITIES.

ABOUT PROGRAM



INTERNET OF THINGS IN SHORT IoT IS A TRENDING TECHNOLOGICAL FIELD THAT CONVERTS ANY ELECTRONIC DEVICE INTO A SMARTER ONE. A LOT OF INDUSTRIES ARE BEGINNING TO ADOPT THIS TECHNOLOGY ON TO THEIR OPERATIONS TO INCREASE THEIR PRODUCTIVITY AND IMPROVE EFFICIENCY. THIS TECHNOLOGY CAN BE INTEGRATED INTO ALMOST ALL THE INDUSTRIES, WITH THE HELP OF MACHINE LEARNING WE CAN HAVE ACCURATE PREDICTING FUTURE EVENTS, SO THERE IS A NEED FOR INTEGRATION OF THESE TWO CUTTING EDGE TECHNOLOGIES. THIS PROGRAMME IS ONE OF THE STEPPING STONE TOWARDS THAT MOTIVE.

OBJECTIVES OF FDP

- > **TO CREATE AN AWARENESS ON THE IMPORTANCE OF DATA ANALYTICS IN IoT.**
- > **ABLE TO DIFFERENTIATE DIFFERENT TYPES OF SENSORS AND ABLE TO INTERFACE THEM.**
- > **DESIGN AND IMPLEMENTATION OF INDUSTRIAL IoT GATEWAY WITH IEEE 1451 STANDARDS**
- > **TO UNDERSTAND THE IMPORTANCE OF MACHINE LEARNING AND ABLE TO APPLY THE SUPERVISED LEARNING MODEL FOR REAL TIME APPLICATIONS.**
- > **IMPLEMENTATION OF RECOMMENDER SYSTEMS USING MACHINE LEARNING.**

EXPECTED OUTCOMES OF FDP

AT THE END OF THIS PROGRAM, THE PARTICIPANTS WILL BE ABLE TO:

- > **UNDERSTAND THE IMPORTANCE OF DATA ANALYTICS IN IoT.**
- > **UNDERSTAND THE FUNCTIONING AND INTERFACING OF DIFFERENT SENSORS.**
- > **IMPLEMENT THE APPLICATIONS OF IoT GATEWAY WITH IEEE 1451 STANDARDS.**
- > **APPLY DIFFERENT SUPERVISED LEARNING ALGORITHMS FOR REAL TIME APPLICATIONS.**
- > **ANALYZE THE FUNCTIONALITY OF RECOMMENDER SYSTEMS.**

FDP GUIDELINES

- > **THE SESSION WILL BE FROM 10:30 AM TO 12:30 PM DAILY.**
- > **THE LINK FOR THE SESSIONS WILL BE PROVIDED IN THE WHATSAPP GROUPS ON THE DAY OF SESSION.**
- > **PARTICIPANTS ARE INFORMED TO FILL THE FEEDBACK LINK THAT IS PROVIDED AT THE END OF THE SESSION.**
- > **THE E-CERTIFICATE WILL BE PROVIDED TO ALL THE PARTICIPANTS WHO ATTENDS ALL THE SESSIONS AND ON PROVIDING FEEDBACK.**

DAY-WISE SCHEDULE

DAY - 1:

SPEAKER: **Dr. D L V N SOMAYAJULU, DIRECTOR, IIIT - DM, KURNOOL.**

TOPIC: **ROLE OF DATA ANALYTICS IN IoT**

DAY - 2:

SPEAKER: **Dr. K V ESWARAMOORTHY, ASSISTANT PROFESSOR, ECE, IIIT - DM, KURNOOL.**

TOPIC: **IoT SENSOR INTERFACING & SELECTION OF POWER SOURCE**

DAY - 3:

SPEAKER: **SRI P V S MARUTHI RAO, FOUNDER & DIRECTOR OF VIDCENTUM R&D, HYDERABAD**

TOPIC: **DESIGN & IMPLEMENTATION OF INDUSTRIAL IoT GATEWAY WITH IEEE 1451 STANDARDS**

DAY - 4:

SPEAKER: **Dr. ATUL NEGI, PROFESSOR AT SCHOOL OF COMPUTER & INFORMATION SCIENCES, UNIVERSITY OF HYDERABAD**

TOPIC: **INTROUDCTION TO MACHINE LEARNING & SUPERVISED LEARNING**

DAY - 5:

SPEAKER: **Dr. SANJAYA KUMAR PANDA, ASSISTANT PROFESSOR, CSE, NIT WARANGAL**

TOPIC: **CASE STUDY OF MACHINE LEARNING : RECOMMENDER SYSTEMS (RS's)**

- ARCHITECTURE, TYPES & IMPLEMENTATION OF RS's

CHAIRMAN

SRI P SUBBA REDDY, CHAIRMAN

CHIEF PATRON

Dr. B SREENIVASA REDDY, PRINCIPAL

PATRON

Dr. S NAGARAJA RAO, PROFESSOR & HEAD OF ECE

Dr. K SURESH REDDY, PROFESSOR & DEAN OF ECE

CONVENOR

Dr. D R SRINIVAS, ASSOCIATE PROFESSOR OF ECE

CO-CONVENORS

Dr. S M SHAMSHEER DAULA, ASSOCIATE PROFESSOR OF ECE

SRI G RAMESH, ASSISTANT PROFESSOR OF ECE

Ms. W YASMEEN, ASSISTANT PROFESSOR OF ECE

SMT. M CHAITANYA, ASSISTANT PROFESSOR OF ECE

SRI T NARESH, ASSISTANT PROFESSOR OF ECE

SRI G PAVAN KUMAR, ASSISTANT PROFESSOR OF ECE