

Registration:

Registration Fee: Rs 1500/-

Note :

1. Participants are Eligible to claim TA/DA as per SERB Policy
2. Working lunch will be provided for all the registered participants

Important dates:

Last Date for Registration : 06-12-2024

Intimation of Selection : 10-12-2024

How to Apply :

The applicant can register by using the registration link below. Selection will be on first come first serve basis. Certificates will be issued to only to those participants who have minimum 80% attendance and 60% pass marks in overall assessment test.

Venue:

S. J. Seminar Hall,
Dept. of E.C.E,
K.S.R.M. College of Engineering,
KADAPA, Andhra Pradesh - 516005

Registration Link:

<https://forms.gle/zLrituXJ6aPJJu3oS8>

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Dept. of E.C.E

Co-ordinators:

Dr. D. Arun Kumar, Associate Professor,
Dept. of E.C.E

Mr. M. Prabhakar, Assistant Professor,
Dept. of E.C.E



Science and Engineering Research Board

Sponsored

One Week National Workshop on

**Crop Informatics, Drone Images/Videos,
and Generative Pre-Trained Transformers (GPTs)**

16th to 20th Dec., 2024

Organized by

Department of

Electronics and Communication Engineering

K.S.R.M. College of Engineering

(AUTONOMOUS)

Affiliated to JNTUA, Ananthapuramu

Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade and

B. Tech - EEE, ECE, CSE, CE and ME programs by NBA

Y.S.R. Kadapa Dist. A.P - 516005.

Website : www.ksrmce.ac.in



About the Institute

Kandula Srinivasa Reddy Memorial College (KSRM) of Engineering was established in the year of 1980, in the memory of late Sri. Kandula Srinivasa Reddy, son of late Sri. Kandula Obul Reddy, former Member of Parliament. The institute is Autonomous and approved by AICTE, Accredited by NAAC with A+ grade and Affiliated to Jawaharlal Nehru Technological University, Anantapuramu.

The Mission and purpose in establishing KSRM College of Engineering is to impart quality of Education in Engineering at Under Graduation and Post Graduation levels aiming to achieve the status of the best Engineering College and thereby fulfill the dreams of the founder chairman and the aspirations of students community in the region to become world class professional and technocrats.

The Institute offers B.Tech Courses in CE, EEE, ME, ECE, CSE, AIML and CSE (DS). The institute also offers Post Graduate courses namely M.Tech in Power Systems, Geotechnical Engineering, AI/DS, RE and ES & VLSI. The institute also offers Ph. D. programs under the research centers recognized by JNTUA. All the eligible B.Tech programs are accredited by NBA. The institute has spacious campus spread over 35 acres with accommodation of over 39000 sqm. built - up area and surrounded by plenty of greenery.

About the Department

ECE Department was started in the year 1980 offering B.Tech (ECE) with an intake of 15. The intake was gradually increased and the current intake is 180. PG course with the specialization DECS was introduced in the year 2011 with an intake of 18 which was later increased to 36 in the year 2014 and switched to Embedded Systems and VLSI in the year 2021 with an intake of 18. The department is recognized as a research center by JNTUA, Ananthapuramu in 2017.

The Department has a good infrastructural and instructional facilities to cater the needs of student community of the department with 8 well equipped laboratories. The Students have full access to the software/tools like Cadence, Xilinx, Matlab, LabView, FPGA, Arduino Uno, Raspberry pi, NI myrio and mydaq Kits etc. The department is associated with professional bodies like IEEE, IETE and ISTE to enhance its research and professional activities.

The department has highly qualified faculty having specialized in diversified areas of technology. The faculty brings state-of-the-art research, development, innovation and design experience into the classroom. The B.Tech (E. C. E) programmes of the department are accredited by the NBA in 2006, 2010 and 2023 (Tier-1). The department has center of excellences like CM Skill Excellence center, Internet of Things (IoT) lab, etc. The department has research grants from central funding agencies like MSME.

Objective of the Workshop

The proposed one week national workshop is sponsored by SERB, New Delhi, aims at imparting awareness and training on "Crop Informatics, Drone Videos, and Generative Pre-Trained Transformers" helps in updating the academic and research knowledge of the participants from Engineering colleges and Research organizations.

Crop informatics is a branch of agricultural informatics that deals with collection, analysis, integration and visualization of data related to crop production. One of the important methods of collecting data is through drone images/videos. The drone images of crops are processed by large language models and the results are shared to the end users as answers to their queries. The queries can be in the form of text based user interface or voice based input device. This method of answering user query related to the crop information is implemented using generative pre-trained transformers (GPTs).

Resource Persons

Eminent personalities from IITs/NITs/CFTI/ and Industry will take the sessions during the workshop.

Contents

Fundamentals of crop informatics, Evolution of Crop informatics-from traditional methods to advanced methods, Application of Drones in crop informatics, methods of processing drone images/videos, Applications of AI in crop informatics, Introduction to large language models, Different modes of delivering crop information to users, Generative pre-trained transformers to process big data, Voice and text based user interfaces for crop informatics, Advanced methods of acquiring crop informatics. National and International status of GPTs for crop informatics.

For further details please contact:

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