

ABOUT SRKR ENGINEERING COLLEGE(A) :

Sagi Rama Krishnam Raju Engineering College (SRKREC), established in 1980, is a self-financed academic institution of coeducation striving to provide a high quality technical education to engineering aspirants. Being one of the premier and well-established technical institutions of the country, it continues to render service to the nation and the world at large with its alumni holding highly prestigious positions and making substantial contribution. The president of the institution Sri. S. Prasada Raju carries forward the vision of his father Late Sri Sagi Rama Krishnam Raju, a philanthropist, driving the institution on the academic path of excellence. The college is replete with lush coconut trees spanning across a plot area of 30 acres at China Amiram, Bhimavaram, on Bhimavaram-Vijayawada state highway and it is also well-connected to all other places by road and rail transport.

Resource Persons

Dr. P A R K Raju,
Dean-R&D, SRKREC
Dr. Thokir Bhasha Shaik,
Research Associate Wet Centre Dept. of CIVIL, SRKREC
Dr. P Raghu Ram,
Assistant Professor, Wet Centre Dept. of CIVIL, SRKREC
Dr. T Rambabu,
Assistant Professor, Wet Centre Dept. of CIVIL, SRKREC.

Sri. Srujan Attaluri,
Lead system design engineer, VOLVO
Dr. Nukala Gopla Krishna Murthy,
Head-Technology Centre, SRKREC
Sri. Dwarampudi Srinivasa Reddy,
Founder DS Reddy Consultancy.
Sri. Kurella Pavan Kumar,
Assistant Professor, Dept. of EEE, SRKREC

Dr. A.Bala Krishna,
Professor, Dept. of Mechanical Engineering
Sri Guda Karthik, Design Tech

Dr. Suresh Babu Mudunuri,
Head -Centre Bioinformatics Research, SRKREC



CHIEF PATRONS

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Sri P KRISHNAM RAJU,
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Sri G RAMA RAJU,
Vice-President, SRKREC
Sri S V RANGA RAJU,
Vice-President, SRKREC
Sri S R K NISHANTH VARMA,
Secretary Cum Correspondent, SRKREC
Dr. K S VIJAYA NARASIMHA RAJU,
Member, Governing Body, SRKREC
Sri S Satya Pratik Varma,
Member, Governing Body, SRKREC

PATRON

Amb. K. JEEVA SAGAR,
Director, SRKREC
Dr. M JAGAPATHI RAJU,
Principal, SRKREC

Programme Advisory Committee

Dr. P A R K Raju, Dean-R&D, SRKREC
Dr. A C S V Prasad, HOD - CIVIL, SRKREC
Dr. V Chandra Sekhar, HOD - CSE, SRKREC
Dr. N Uday Kumar, HOD - ECE, SRKREC
Dr. B Ravi Kumar Varma, HOD - EEE, SRKREC
Dr. Bh Ramakrishnam Raju, HOD - IT, SRKREC
Dr. K Brahma Raju, HOD - MECH, SRKREC

CONVENOR

Dr. K Brahma Raju,
HOD - Dept. of Mechanical Engineering, SRKREC

Coordinator - STUTI Program

Prof. Balla Srinivasa Prasad,
GITAM Deemed to be University

COORDINATOR

Dr. N Gopala Krishna Murthy,
Head - Technology Centre, SRKREC

CO-COORDINATOR

Dr. Suresh Babu Mudunuri,
Head -Centre Bioinformatics Research, SRKREC

ORGANIZING SECRETARY

Sri. K Pavan Kumar
Dept. of Electrical & Electronics Engineering, SRKREC

ORGANISING COMMITTEE

Dr. T Rambabu, Dept. of CIVIL Engg., SRKREC
Dr. S RAJESH, Dept. of Mech. Engg., SRKREC



DST Sponsored

A National Level 7-Day Hands-on Training Program
on

INTEGRATIVE RESEARCH IN VARIOUS FIELDS OF ENGINEERING

21st-27th September 2022

**UNDER STUTI PROGRAM-2021
(DST/RND/STUTI/2021/18)**



Organised By

*Departments of CIVIL, EEE, MECHANICAL and IT,
Sagi Rama Krishnam Raju(SRKR)
Engineering College(A), Bhimavaram*



in collaboration with

*GITAM Institute of Technology
GITAM Deemed to be University, Visakhapatnam*



**HOSTED BY
TECHNOLOGY CENTRE
SRKR ENGINEERING COLLEGE,
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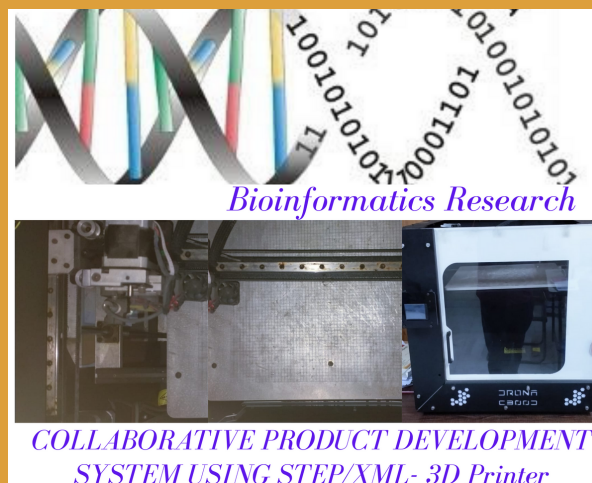
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Prof. Balla Srinivasa Prasad
STUTI Program Coordinator,
GITAM
sballa@gitam.edu

OBJECTIVE OF THE PROGRAMME:

- Knowledge on DST funded projects in various fields of Engineering
- Hands on experience training on various Equipment funded by DST like EV Charger , 3D printers, Water Quality testing
- Impart Knowledge in Electrical Vehicles(EV) and EV Charger Infrastructure
- Training in development of EV Charger protocols using Virtual CAN and OCPP protocol
- To develop software tools and applications for finding repeats in human genome sequences
- Impart knowledge about Remote sensing and Geographic Information Systems (GIS) and their latest advancements
- Hands on practice to handle the Geospatial Data and Softwares and study of Case studies in Remote sensing and GIS
- To know about Impact of polluted water on human health with case study,
- Training on various standard testing procedure for Water Quality Assement and interpretation methods for water quality assement test outcomes .
- To share CAD data files by different users by using a Standard for the Exchange of Product model data (STEP) as the standard to represent product information.
- To avoid format mismatch by the development of a Translator to convert STEP Geometry Data into XML Data
- To train on product development tools(analysis using Hyper Mesh tool)



ELIGIBILITY:

M.Tech students, research scholars, faculty, Scientists, Post-Doc Fellows, Industry persons

REGISTRATION PROCESS:

- No Registration Fee
- Limited registrations based on first come first serve
- TA(3AC Train/Bus), and Free accommodation for outstation candidates
- Food will be provided
- Certificates will be provided
- Last date for Registration: 07/09/2022
- Scanned copy of registration form should be attach in the following google form link:

https://docs.google.com/forms/d/e/1FAIpQLSfFwdsxPeFUnt5t-WWTmbZ6Lf0Vmk-msVrzOH9emZrjFnZ5_w/viewform?usp=sf_link

Note: Find the template of registration form in google form itself.

REGISTRATION FORM

Name: _____
Designation: _____
Branch: _____
Organization: _____

Address: _____

Accommodation Required (Yes/No): _____

I would like to participate as a delegate in A National Level 7-Day Hands-on Training Program Integrative Research in Various Fields of Engineering (21st-27th September 2022) organized by SRKREC(A) in collaboration with GITAM Deemed to be University under STUTIPProgram-2021 DST/RND/STUTI/2021/18

Signature of Candidate

Signature of Head of the Department/Institution with seal

Date

Schedule For A National Level 7-Day Hands-on Training Program Integrative Research in Various Fields of Engineering (21st - 27th September 2022)

Note: Minimum requirement of participants: 30(Please submit along with their bio-data -forms enclosed).

Registration Google Form Link:

https://docs.google.com/forms/d/e/1FAIpQLSfFwdsxPeFUnt5t-WWTmbZ6Lf0Vmk-msVrzOH9emZrjFnZ5_w/viewform?usp=sf_link

| Day | Morning Session(10.00 am– 12.00 pm) | Afternoon session(1.30pm–4.00pm) |
|---------------------------|--|--|
| | Water Quality Assessment and Geospatial Technologies. | |
| Day 21/09/2022 | Topic: Water Quality Testing :Standard drinking water quality criteria, Why Quality of water is important for life existence, Describing the various standard testing procedures (based on international and Indian standards) and their examination and Test outcome interpretation methods. | <ul style="list-style-type: none"> Hand on practice for finding Water Quality Assessment parameters by using portable devices Demonstration of Water pollution constituents detection by using various instruments |
| | Resource Person: Dr. P A R K Raju, Dean-R&D, SRKREC | Resource Person: Dr. Thokir Bhasha Shaik, Research Associate Wet-Centre Dept. of CIVIL, SRKREC |
| Day 22/09/2022 | Topic: Evaluation of Natural resources and management using Geospatial Technologies with various Case studies. | Hands on practice to handle the Geospatial Data and Software |
| | Resource Person: Dr. P Raghu Ram, Assistant Professor, Wet Centre Dept. of CIVIL, SRKREC | Resource Person: Dr. T Rambabu, Assistant Professor, Wet Centre Dept. of CIVIL, SRKREC |
| | Bioinformatics | |
| Day 23/09/2022 | Topic: Development of Software Tools and Servers for Bioinformatics | Hands-on Session on usage of Bioinformatics Software Tools |
| | Resource Person: Dr. Suresh Babu Mudunuri, Head -Centre Bioinformatics Research, SRKREC | Resource Person: Dr. Suresh Babu Mudunuri, Head -Centre Bioinformatics Research, SRKREC |
| | Implementation of Collaborative Product Development System Using STEP/XML | |
| Day 24/09/2022 | Topic: Introduction to collaborative product development (CPD) and Basic approaches to CPD | Hands -on practice on Product modeling emphasis on analysis using HyperMesh tool |
| | Resource Person: Dr. A.Bala Krishna, Professor, Dept.of Mechanical Engineering | Resource Person: Sri Guda Karthik, Design Tech |

| Day | Morning Session(10.00 am– 12.00 pm) | Afternoon session(1.30pm–4.00pm) |
|---------------------------|---|---|
| | EV & EV Charger Infrastructure | |
| Day 25/09/2022 | Topic: Battery Management System and Hands on experience training CAN BUS which is used in automobile industry | Hands-on experience on GB/T Protocol in a virtual environment . |
| | Resource Person: Sri. Srujan Attaluri Lead system design engineer, VOLVO | Resource Person: Sri. Dwarampudi Srinivasa Reddy, Founder - DS Reddy Consultancy |
| Day 26/09/2022 | Topic: Introduction to Electrical Vehicles and EV Chargers, Different Protocols used in EVSE (Electric Vehicles Supply Equipment), EV and CMS (Central Management systems) Part-1 | Demonstration of How to Control EV chargers from CMS, location identification of EV charger and EV charger payment Android App |
| | Resource Person: Sri. Kurella Pavan Kumar, Assistant Professor, Dept. of EEE, SRKREC Dr. Nukala Gopla Krishna Murthy, Head-Technology Centre, SRKREC | Resource Person: Sri. Kurella Pavan Kumar, Assistant Professor, Dept. of EEE, SRKREC Dr. Nukala Gopla Krishna Murthy, Head-Technology Centre, SRKREC |
| Day 27/09/2022 | Topic: Introduction to Electrical Vehicles and EV Chargers, Different Protocols used in EVSE (Electric Vehicles Supply Equipment), EV and CMS (Central Management systems) Part-2 and Visit to EV charger Infrastructure developed at SRKREC | Topic: Project Proposal Writing Case study: DST project Demonstration of Grid Supportive EV Charger and Charging Infrastructure at LT Level(D-EVCI) |
| | Resource Person: Sri. Kurella Pavan Kumar, Assistant Professor, Dept. of EEE, SRKREC Dr. Nukala Gopla Krishna Murthy, Head-Technology Centre, SRKREC | Resource Person: Dr. Nukala Gopla Krishna Murthy, Head-Technology Centre, SRKREC Sri. Kurella Pavan Kumar, Assistant Professor, Dept. of EEE, SRKREC |

Training Program Coordinators

Dr. Nukala Gopla Krishna Murthy
Dr.Suresh Babu Mudunuri
Sri. Kurella Pavan Kumar

Project Investigator, STUTI:

Prof. Balla Srinivasa Prasad



Organized at Sagi Rama Krishnam Raju Engineering College, Bhimavaram-534204
Collaboration with GITAM Institute of Technology, GITAM Deemed to be University, Visakhapatnam-530045
Under Govt. of India's STUTI Program-2021 (DST/RND/STUTI/2021/18)

