Place: Kadapa,

Date: 12-07-2021

From,

Dr. M. Murali,

Associate Professor,

Department of EEE,

KSRM College of Engineering,

Kadapa, AP

To,

The Principal,

KSRM College of Engineering,

Kadapa, AP

**Subject:** Reg. - Permission to conduct one week FDP on "Computational Intelligence and its applications".

Respected sir,

Myself Dr. M. MURALI from EEE department, planning to organize a one week FDP along with Sri. M. Bhaskar Reddy, Associate Professor and Mr. CH Hussaian Basha, Assistant Professor. The title of the FDP is "**Computational Intelligence and its applications**" which is a current trend in research and innovation. This FDP will enhance the knowledge of faculty and also beneficial to the students to carry out their projects and faculty research work. The FDP is planned from 16-08-2021 to 21-08-2021. I am planning to invite few resource persons from various NIT's and reputed Institutions in the country along with our internal resource persons from CRI and EEE department. Hence, in this regard I request you to permit me to organize this FDP.

Thanking you sir.

Your's sincerely,

M. Murali 12/07/21

Dr. M. Murali

*Forwarded to principal sir*

*I request you to give permission to conduct One-week FDP on the above said dates. The FDP will be conducted through Google meet (online mode). The schedule & resource persons details will be intimated later after finalization*

*12/07/21.*

*To Director Sir*

*Permission may be granted*

*11.S.S. Murli*

*27/7/21*

**Registration Fee: Free**
**Last Date of Registration:14-08-2021**

**How to Apply:**
The applicants can register by submitting the below Google form. Certificate will be issued to only those participants, who have minimum 80% attendance.

**Registration Link:**
https://forms.gle/wEhRdGTwRuNbGwGx8
The mode of FDP is through ONLINE Platform (Google MEET).

The number of participants are limited to **100**

**Organizing Committee:**
Smt. C. N. Arpitha, Associate Professor
Sri K. Ramamohan Reddy, Associate Professor
Dr. T. MariPrasath, Associate Professor
Dr. C. Kumar Reddy, Assistant Professor
Smt. SalehaTabassum, Assistant Professor
Sri K. Kalyan Kumar, Assistant Professor
Sri P. Durga Prasad, Assistant Professor
Sri T. Kishore Kumar, Assistant Professor
Sri NeeratiSiddhik, Assistant Professor
Sri G. Hussain Basha, Assistant Professor
Kum. A. Jyothirmayi, Assistant Professor
Sri S. Khadarvali, Assistant Professor

**Chief Patrons:**
**Sri K. Raja Mohan Reddy**
Chairman
**Smt. K. Rajeswari**
Correspondent, Secretary and Treasurer
**Sri K. Madan Mohan Reddy**
Vice Chairman
**Sri K. Chandra Obul Reddy**
Member

**Patron:**
**Prof. A. Mohan, Director**

**Chairman:**
**Prof. V. S. S. Murthy, Principal**

**Convener:**
**Dr. K. Amaresh**
Professor & HOD, EEE

**Coordinator:**
**Dr. M. Murali**
Associate Professor, EEE

**Co-Coordinators:**
**Sri M. Bhaskar Reddy**
Associate Professor, EEE
**Sri CH Hussain Basha**
Asst. Prof., EEE & CRI Member
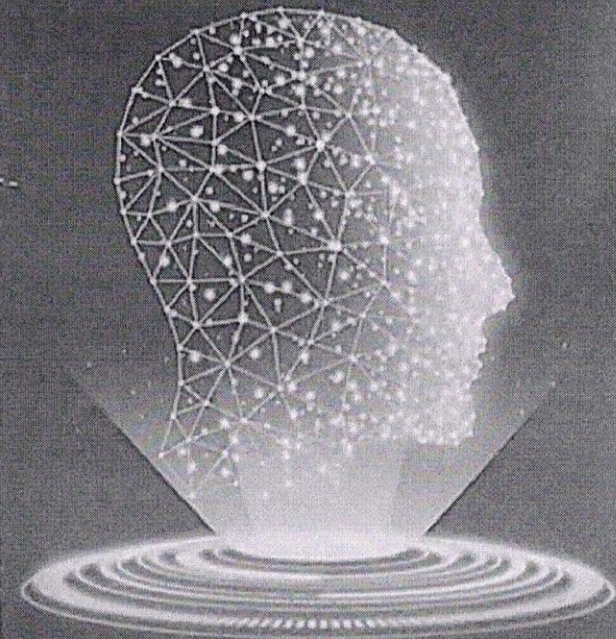
**K.S.R.M. COLLEGE OF ENGINEERING**
(AUTONOMOUS)
Approved by A.I.C.T.E, New Delhi, Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC of UGC | An ISO 14001:2004 & 9001: 2015 Certified Institution

A One Week Online National Level
Faculty Development Programme
on
**COMPUTATIONAL INTELLIGENCE &
ITS APPLICATIONS (CI&A-2021)**

16th – 21st August, 2021.

**Organized By**
**Department of EEE**

K.S.R.M. College of Engineering (Autonomous),
Village: Yerramasupalli, Mandal: C.K. Dinne,
Kadapa – 516 005, AP.

## About the Institute :

Kandula Srinivasa Reddy Memorial College of Engineering (KSRMCE) 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, An ISO 9001:2015 Certified Institution 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 student community in the region to become world class professional and technocrats.

The Institute offers B.Tech Courses in CE, EEE, ME, ECE& CSE. The Institute also offers Post Graduate courses namely M.Tech in Power Systems, Geotechnical Engineering, Computer Science Engineering, CAD/CAM and DECS. 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 :

The Department of EEE was started in the year 1981 with initial sanctioned strength of 30and the current intake is 60. The department of EEE has been offering M. Tech course in Power Systems from 2010 with an intake of 18.

The department acquires the Accreditation Status two times and got autonomous status in the year 2014. With the advent of Autonomous status, the course pattern has been significantly revised in pace with latest trends and technologies of present days.

The Department has highly qualified, experienced and dedicated faculty. The Department has fully equipped laboratories to have an actual hands-on experience apart from the theoretical knowledge. It is continuously striving to import quality of education and competitive spirit among the students for the academic excellence. The department also has the credit of organizing one day& two days training programmes and also FDP's, Workshops, Conferences and CRT etc.

The continual university ranks, GATE Scores and placement of students in various core sectors and software organizations in around the country reflect the aspirations of this department. Alumni are well placed in India and abroad and many of them are presently pursuing their education in highly reputed institutes.

## Objectives of the FDP :

The proposed one week FDP aims at imparting awareness and training on "Computational Intelligence& Its Applications" helps in updating the academic and research knowledge of the participants from Engineering colleges and Research organizations. The main focus will be on fundamentals of Soft Computing Techniques and Its Applications in Electrical Engineering problems. Participants of the program will have an opportunity to interact with the eminent peoples elected as our resource persons from various NIT's, Reputed Institutes and Research & Development organizations.

## Outcome of the FDP :

• Research papers publication in SCIE/ SCOPUS journals.

## Resource Persons :

1. **Dr. S. Kayalvizhi,**
   Assistant Professor, Dept. of EEE, NIT, Tiruchirapalli, Tamilnadu.
2. **Dr. Sachidananda Prasad,**
   Assistant Professor, Dept. of EEE, NIST, Berhampur, Odisha.
3. **Dr. J. Vijaya Kumar,**
   Professor, Dept. of EEE, ANITS, Visakhapatnam, Andhra Pradesh.
4. **Dr. T. Hari Priya,**
   Assistant Professor, Dept. of EEE, VNR VJIET, Hyderabad, Telangana.
5. **Dr. T. Mariprasath,**
   Assoc. Prof., Dept. of EEE & CRI Member, KSRMCE, Kadapa, Andhra Pradesh.
6. **Dr. M. Murali,**
   Associate Professor, Dept. of EEE, KSRMCE, Kadapa, Andhra Pradesh.
7. **Sri M. Chandrasekhar,**
   Industry Expert
8. **Sri M. Bhaskar Reddy,**
   Associate Professor, Dept. of EEE, KSRMCE, Kadapa, Andhra Pradesh.
9. **Sri CH Hussaian Basha,**
   Asst. Prof., Dept. of EEE& CRI Member, KSRMCE, Kadapa, Andhra Pradesh.

## Contents of the FDP :

1. Introduction to Computational Intelligence & TLBO Algorithm and its applications.
2. Harmony Search algorithm and its applications
3. Genetic Algorithm & Bat Algorithm and its applications.
4. PSO algorithm and its applications.
5. Krill Herd algorithm and its applications.
6. Shuffled Frog Leaping Algorithm and its applications.
7. Gravitational Search Algorithm and its applications.
8. Random Search Method based Algorithm and its Applications.
9. RBFN based Neural Network.
10. Cuckoo Search algorithm and its applications.
11. Soft Computing based MPPT.
12. Artificial Intelligence Applications in Renewable Energy Sector.

## For further details please contact:
Sri CH Hussaian Basha,
Asst. Prof., EEE, CRI Member.
Mobile No.: +91 9514418276

| Name | Designation | Department | College Name | State | Email |
|------|------------|------------|--------------|-------|-------|
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| Dr.S.Prabhu | Assistant Professor | EEE | Sree Vidyanikethan Engineering College | Andra Pradesh | Prabu.s@vidyanikethan.edu |
| M CHARAN reddy | Studying | ME | Ksrm college of engineering | ANDHRA pradesh | mcharanreddynani@gmail.com |
| Mr.R.GUNASEKARAN | ASSISTANT PROFESSOR | PHYSICS | DHAANISH AHMED INSTITUTE OF TECHNOLOGY COIMBATORE | TAMILNADU | gunaspectrashine@gmail.com |

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| RAVI SANKAR KAMPARA | ASSOCIATE PROFESSOR | EEE | Lendi Institute of Engineering and Technology | Andhra Pradesh | ravisankar.moon@gmail.com |

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| | | KSRM College of Engineering(Autonomous), Kadapa-516005, AP, India | | | |
|---|---|---|---|---|---|

**Department of EEE**

**A One Week Online National Level FDP on "Computational Intelligence and Its Applications (CI&A-2021)"from 16/08/2021 to 21/08/2021**
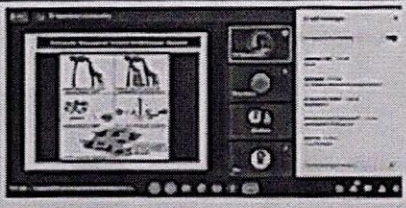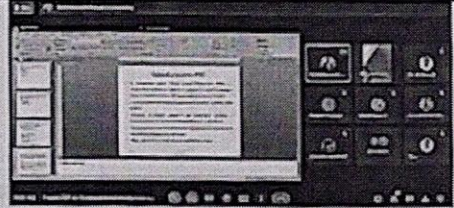
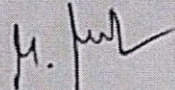| Day | Session | Duration | Name of the Resource Person | Address | Delivery Topics |
|---|---|---|---|---|---|
| 16/08/21 (Monday) | Inauguration | 9.30 AM to 10 AM | Dr. S. Kayalvizhi | Assistant Professor, Dept. of EEE, NIT Tiruchirapalli, Tamil Nadu | Introduction to Computational Intelligence & TLBO Algorithm and its applications |
| | Session 1 | 10 AM to 12 PM | | | |
| | Session 2 | 2 PM to 4 PM | Dr. T. Mariprasath | Associate Professor, Dept. of EEE (CRI Member), KSRM College of Engineering, Kadapa, AP | Soft Computing based MPPT |
| 17/08/2021 (Tuesday) | Session 3 | 10 AM to 12 PM | Dr.Sachidananda Prasad | Assistant Professor, Dept. of Electrical Engineering, NIST Berhampur, Odisha | PSO algorithm and its applications |
| | Session 4 | 2 PM to 4 PM | Dr.Sachidananda Prasad | Assistant Professor, Dept. of Electrical Engineering, NIST Berhampur, Odisha | Krill Herd algorithm and its applications |
| 18/08/2021 (Wednesday) | Session 5 | 10 AM to 12 PM | Dr. J. Vijaya Kumar | Professor, Dept. of EEE, Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam, AP | Shuffled Frog Leaping Algorithm and its applications |
| | Session 6 | 2 PM to 4 PM | Sri. CH Hussaian Basha | Assistant Professor, Dept. of EEE (CRI Member), KSRM College of Engineering, Kadapa, AP | RBFN based Neural Network |
| 19/08/2021 (Thursday) | Session 7 | 10 AM to 12 PM | Dr. T. HariPriya | Assistant Professor, Dept. of EEE, VNR VJIET College, Hyderabad, TS | Random Search Method based Algorithm and its Applications |
| | Session 8 | 2 PM to 4 PM | Dr. J. Vijaya Kumar | Professor, Dept. of EEE, Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam, AP | Gravitational Search Algorithm and its applications |
| 20/08/2021 (Friday) | Session 9 | 10 AM to 12 PM | Dr. M. Murali | Associate Professor, Dept. of EEE, KSRM College of Engineering, Kadapa, AP | Genetic Algorithm & Bat Algorithm and its applications |
| | Session 10 | 2 PM to 4 PM | Sri. CH Hussaian Basha | Assistant Professor, Dept. of EEE (CRI Member), KSRM College of Engineering, Kadapa, AP | Cuckoo Search algorithm and its applications |
| 21/08/2021 (Saturday) | Session 11 | 10 AM to 12 PM | Dr. S. Kayalvizhi | Assistant Professor, Dept. of EEE, NIT | Harmony Search |

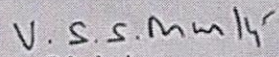| | | | | Tiruchirapalli, Tamil Nadu | algorithm and its applications |
|---|---|---|---|---|---|
| | Session 12 | 2.30 PM to 4 PM | Sri. M. Chandrasekhar | Industry Expert | Artificial Intelligence Applications in Renewable Energy Sector |
| | | 4 PM to 4.30 PM | Feedback and Valedictory | | |

# K.S.R.M COLLEGE OF ENGINEERING
### AUTONOMOUS

## One Week Online National Level FDP on Computational Intelligence & Its Applications (CI&A-2021) Report

| | |
|---|---|
| Name of the Activity | One Week Online National Level FDP on "Computational Intelligence and Its Applications (CI & A-2021)" |
| Type of Activity | Faculty Development Program |
| Date and Time of Activity | 16/08/2021 to 21/08/2021 — Every day 2 sessions: 10am to 12pm and 2pm to 4pm |
| Details of Participants | 50 participants (Ph.D students and Faculty members) from different states of India. — Resource persons from various NIT's, Reputed Institutions and R&D Organization. |
| Coordinator(s) | Dr. M. Murali<br>Co-coordinators: Mr. M. Bhaskar Reddy<br>Mr. CH Hussaian Basha |
| Organizing Dept./Support System | EEE |
| Description | This main objective of this FDP is to impart training on few Computational Intelligence Algorithms which helps in updating the academic and research knowledge of the participants. The outcome of this FDP is publication of Research papers in SCIE indexed journals or SCOPUS indexed journals. |



Coordinator

Principal

# K.S.R.M. COLLEGE OF ENGINEERING
## (UGC-AUTONOMOUS)
### Kadapa, Andhra Pradesh, India– 516 005
### Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.
### An ISO 14001:2004 & 9001: 2015 Certified Institution

**KSNR**
*lives on..*

Department of Electrical & Electronics Engineering

Date: 21.08.2021

<u>Feedback</u>

Name of the Faculty: S. Khadar Vali

Employee ID: 1031802

Email ID: Khadarvali@ksrmce.ac.in

1. How would you rate the useful ness of the content

   ✓1. Strongly Agree      2. Agree      3. Neutral      4. Disagree      5. Strongly Disagree

2. Interaction of the faculty with the students

   1. Strongly Agree      2. Agree      3. Neutral      4. Disagree      5. Strongly Disagree

3. How would you rate the presentation of the activity

   ✓1. Strongly Agree      2. Agree      3. Neutral      4. Disagree      5. Strongly Disagree
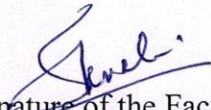
4. How would you rate the presentation style of teaching

   1. Strongly Agree      2. Agree      3. Neutral      4. Disagree      5. Strongly Disagree

5. Was the workshop Above or Below your current skill level

   Above              Below              Just right

6. Any other suggestions

   —

Signature of the Faculty

**KSRM College of Engineering**
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An ISO 14001:2004 & 9001: 2015 Certified Institution
Kadapa-516 005, Andhra Pradesh, India
**Department of Electrical & Electronics Engineering**

**KSNR**
*lives on..*

## CERTIFICATE OF PARTICIPATION

This is to certify that SHAIK KHADARVALI has successfully completed One Week Online National Level FDP on **"Computational Intelligence & Its Applications (CI&A-2021)"** held during **16th - 21st, August 2021** organized by **Department of EEE, KSRM College of Engineering (Autonomous), Kadapa, Andhra Pradesh.**

Program Coordinator
KSRMCE, Kadapa

HOD, Dept. of EEE
KSRMCE, Kadapa

Principal
KSRMCE, Kadapa

Director
KSRMCE, Kadapa