## K.S.R COLLEGE OF ENGINEERING, TIRUCHENGODE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University,
Chennai.

#### **ORGANIZED BY**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## FACULTY DEVELOPMENT PROGRAMME

Academic Year: 2020 - 2021

### TITLE

"Intelligent Objects & Technologies For Building Applications On Data Science With Machine

Learning Techniques Using Internet Of Things"

DATE(S): 08.03.2021 to 21.03.2021

Dr. A. RAJIV KANNAN, M.E. Ph.D. Professor and Head
Department of Computer Science and Engineer K.S.R. College of Engineering (Autonomous)
Tiruchengode - 637 215, Namakkal (Dt.)

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AICTE Sponsored Two Weeks Faculty Development Programme on

INTELLIGENT OBJECTS & **TECHNOLOGIES FOR BUILDING** APPLICATIONS ON DATA SCIENCE WITH MACHINE LEARNING TECHNIQUES USING INTERNET OF **THINGS** 

8th to 21st March, 2021

#### REGISTRATION FORM

1. Name

2. Gender

3. Designation

4. Institution

5. Educational

Qualification

6. Mobile No.

7. E-mail

8. Accommodation Required: Yes / No

Signature of Applicant

Dr/Mr/Ms.....

will be permitted to participate in the said FDP, if selected.

Head of the Department/Institution Signature (With Office Seal)

#### ORGANIZING COMMITTEE

#### CHIEF PATRONS

Lion. Dr. K. S. Rangasamy MJF Founder-Chairman, K.S.R. Educational Institution.

Thiru. R. Srinivasan Chairman, Aarthi Educational & Charitable Trust.

#### **PATRONS**

Dr. P. Senthilkumar Principal, K.S.R. College of Engineering.

#### CONVENERS

Dr. A. Rajiv kannan Professor & Head, Dept. of CSE.

Dr. V. Sharmila Professor, Dept. of CSE.

#### DEPARTMENT R&D CO-ORDINATOR

Dr. N.S. Nithya Associate Professor, Dept. of CSE.

#### **CO-ORDINATORS**

Dr. M. Somu Professor /CSE Dr. C. Anand Professor /CSE Dr. V. Vennila Asso. Prof./CSE Mr. K. Kumaresan Asst. Prof. /CSE Mrs. S. Savitha Asst. Prof. / CSE Dr. K. Venkatesh Guru Asst. Prof. / CSE

#### IMPORTANT DATES:

Submission of Application : 2nd March, 2021 Intimation of Selection : 4th March, 2021 Confirmation by Participants: 6th March, 2021



Sponsored Two Weeks Faculty Development Programme on

**INTELLIGENT OBJECTS &** TECHNOLOGIES FOR BUILDING APPLICATIONS ON DATA SCIENCE WITH MACHINE LEARNING **TECHNIQUES USING INTERNET OF THINGS** 

8th to 21st March, 2021

Organized by Department of



#### K.S.R. College of Engineering

(Autonomous)

Approved by AICTE & Affiliated to Anna University Accredited by NAAC with 'A' Grade and Accredited by NBA

> Tiruchengode - 637 215. www.ksrce.ac.in

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#### ABOUT THE COLLEGE

K.S.R. College of Engineering (Autonomous) was established in the year 2001 by the Aarthi Educational and Charitable Trust, approved by AICTE and affiliated to Anna University. This college is accredited by NAAC with 'A' grade and NBA Accredited Institution. Our college offers nine B.E/B.Tech. Degree programmes, MCA, MBA & seven M.E. programmes. The college has completed nineteen years of dedicated service in the field of Technical Education with avowed mission to scrupulously make expert and ethical technocrats committed to bringing about creative advancements for a better world.

#### ABOUT THE DEPARTMENT

Department of Computer Science and Engineering was started in the year 2001 initially with B.E Programme. With the increasing demand in Computer Science and Engineering, M.E. programme was started in the year 2007. The department is recognized to offer the research programme for Ph.D. under Anna University and accredited by NBA. The department aims at developing intellectually alert, scientifically progressive, globally competent and dynamic young 1T professionals. The students are transformed into technically qualified & employable human resources for the development of society.

#### OBJECTIVE OF THE FDP

The aim of this FDP is to provide an exposure to both basics and recent advances in data science with Machine Learning using IoT to the teaching and research community associated with the departments of Computer Science & Egg., IT, Electrical Engineering, Electronics Engineering, Civil Engineering and Mechanical Engineering.

#### ABOUT THE FDP

Internet of Things and Machine Learning plays an important role in data science for information processing and analysis of data. Machine Learning is an essential part of pattern recognition, object detection and classification, clustering, data mining, and speech recognition, etc. The ability to transfer data over a network without requiring human-to-human or human-to-computer interaction and has an important significance over machine learning in the application of smart city. JoT and Machine Learning are creating a plethora of possibilities for businesses to get more efficient, helping them leverage valuable data for analysis and turning dumb devices to intelligent objects.

#### TOPICS TO BE COVERED

- Basic- Internet of Things, Intelligent Objects
- Sensors, Actuators, Interfaces an Communications
- Factors Influencing Sensors and Network Design
   Driving Forces & Technological Challenges of
- Driving Forces & Technological Challenges of loT
- IoT Applications in Agriculture Systems & Research Directions in Health Care Systems
- Architecting Next Generation of IoT
- Data Science: Data Management in IoT
- Learning Python for Data Science
- Research Trends in Data Science
- Machine Learning Techniques for IoT
   Research Directions in Machine Learning
- Application of Machine Learning to fight COVID-19 pandemic

#### RESOURCE PERSON

The sessions will be handled by eminent faculty members of reputed institutions, and expert from various Institutions and Industries.

#### WHO SHOULD ATTEND

The FDP is open to all Faculty members of AICTE approved intuitions, Research Scholars, Government Organizations and industries.

#### REGISTRATION FEE DETAILS

There is no registration fee for any participant. Accommodation will be provided for requested participants. Refreshments and lunch will be provided.

#### HOW TO APPLY

Participants can submit the duly filled soft copy of the registration form to the given Email-Id: ksxc.csefdp@gmail.com on or before 02.03.2021.

Participants must submit the hard copy of the registration form during registration on 08.03.2021.

Number of participants will be limited. The selected applicants will be intimated by Email on or before 06.03.2021.

#### For further details contact: Dr. V. Sharmila - 8883560555

The applicants should fill their Registration through Google Forms using below link

Registration Link: https://tinyurl.com/kkxnmcs3

#### ADDRESS FOR COMMUNICATION

Dr. A. Rajiv Kannan, Professor & Head, Department of CSE, K.S.R. College of Engineering, Tiruchengode – 637 215. Contact No.:9842761811.



#### Invitation



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

(An Autonomous Institution) Tiruchengode, Tamil Nadu, India

**Department of Computer Science and Engineering** 



cordially invite you to the Inaugural Function of the

#### **AICTE Sponsored**

**Faculty Development Programmeon** 

## INTELLIGENT OBJECTS & TECHNOLOGIES FOR BUILDING APPLICATIONS ON DATA SCIENCE WITH MACHINE LEARNING TECHNIQUES USING INTERNET OF THINGS

on 8th March 2021 (Monday) at 09:30AM

Mr.RajkumarKalaimani,

Public Speaker, IT Professional, Technical Mentor, Infosys, Chennai.

has wholeheartedly consented to be the chief guest

Lion Dr. K. S. Rangasamy, MJF

Founder - Chairman KSR Educational Institutions Mr. R. Srinivasan

Vice Chairman

Aarthi Educational & Charitable

Trust

will felicitate the gathering

Dr. A. Rajivkannan

HoD/CSE, KSRCE

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Dr. P. Senthil Kumar

Principal, KSRCE

will inaugurate

will welcome the gathering

Valedictory function will be at 04.00 pm on 21st March,2021



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

(Autonomous)



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#### **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**AICTE Sponsored Faculty Development Programme** 

on

INTELLIGENT OBJECTS & TECHNOLOGIES FOR BUILDING APPLICATIONS ON DATA SCIENCE WITH MACHINE LEARNING TECHNIQUES USING INTERNET OF THINGS

#### **FDP SCHEDULE**

Date: 08-03-2021

Time: 9.30 A.m.

**Prayer Song** 

**Welcome Address** 

: Dr. A. Rajivkannan,

Convenor,

Professor & Head/CSE, KSRCE.

**Inaugural Address** 

: Dr. P. Senthil Kumar, Principal, KSRCE.

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**Felicitation Address** 

: Lion Dr. K. S. Rangasamy, MJF,

Chairman,

KSR Educational Institutions.

Mr. R. Srinivasan, Vice - Chairman,

Aarthi Educational & Charitable Trust.

**Chief Guest Address** 

: Mr. RajkumarKalaimani,

Public Speaker, IT Professional, Technical

Mentor,

Infosys, Chennai.

**Vote of Thanks** 

: Dr. M. Somu,

Coordinator,

Professor/CSE, KSRCE.

**National Anthem** 



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## K.S.R. COLLEGE OF ENGINEERING TIRUCHENGODE - 637 215 (Autonomous)

### **Event Schedule**

1	Name of the Event (Seminar/Workshop/Conference/FDP/Anyother)	FDP
2	Name of the Organizer	K.S.R. COLLEGE OF ENGINEERING
3	Date of Event	08.03.2021 to 21.03.2021
4	Platform-(online/offline)	offline
5	Title of the Event	AICTE Sponsored FDP on Intelligent Objects & Technologies For Building Applications On Data Science With Machine Learning Techniques Using Internet Of Things
6	Name of the Co-ordinators	Dr.A.Rajiv Kannan
7	Total Participants	90
8	Objectives of the Event	This FDP enhance the skill development and research culture of faculty in data science.

Coordinator

Dr. A. RAJIV KANNAN, M.E., Ph.D.,
Professor and Head
Department of Computer Science and Engineering
K.S.R. College of Engineering (Autonomous)
Tiruchengode - 637 215, Namakkal (Dt.)

Principal

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

(Autonomous) Tiruchengode – 637 215



Department of Computer Science and Engineering

AICTE Sponsored FDP on Intelligent Objects &

**Technologies For Building Applications On Data** 

Science With Machine Learning Techniques Using

#### **Internet Of Things**

#### TECHNICAL REPORT

On behalf of Computer Science and Engineering department, K.S.R College of Engineering, organizing "AICTE Sponsored FDP on Intelligent Objects & Technologies For Building Applications On Data Science With Machine Learning Techniques Using Internet Of Things" held on 08.03.2021 to 21.03.2021. With the help of such kind of faculty development Program, we can enhance the technical knowledge of faculty. This faculty development Program aims to provide opportunities to faculty members, to enrich their technical knowledge and research.

The faculty development Program was started with inaugural function and inaugural address was delivered by resource person, in the presence of Dr.P. Senthilkumar, Principal, Dean, Directors, Head of various departments and Faculty members, delivered inaugural address. The session was started after inaugural function and each session were guided by well-qualified and experienced faculty members of other and our institution.

As the outcome of this faculty development Program, all the technical sessions were very much informative to the participants. The discussed topics were great benefit for the participants as they are doing research in this field. Department of Computer Science and Engineering is proud to organize this faculty development Program in successful way.

Coordinator

Dr. A. RAJIV KANNAN, M.E., Ph

Department of Computer Science and Engineering

N - S College of Engineering (Autonomous)

Tiruchengode - 637 215, Namakkal (Dt.)

Principal

TIRUCHENGOD

## AICTE Sponsored FDP on Intelligent Objects & Technologies For Building Applications On Data Science With Machine Learning Techniques Using Internet Of Things

#### Resource Person Details:

S. No.	Date	Resource Person
1	08/03/2021	Mr. Rajkumar Kalaimani, Senior Systems Engineer, Infosys, Chennai.
2	09/03/2021	Dr. C. Poongodi, Prof. & Head, Dept. of CSE, Vivekanandha Educational Institutions for Women, Elayampalayam.
3	10/03/2021	Mr. S. Vignesh, Technical Engineer, I Electronics, Salem.
4	11/03/2021	Mr. A. Jeevagan, Design Engineer, I Electronics, Salem.
5	12/03/2021	Mr. A. Jeevagan, Design Engineer, I Electronics, Salem.
6	13/03/2021	Dr. G. R. Kanagachidambaresan, Associate Professor, Dept. of CSE, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Avadi, Chennai.
7	14/03/2021	Dr. J. Preetha, Associate Professor, Dept. of CSE, Muthayammal Engineering College, Rasipuram
8	15/03/2021	Mr. S. Vignesh, Technical Engineer, I Electronics, Salem.
9	16/03/2021	Dr. R. Vijayarajeswari, Associate Professor, Dept. of CSE, Mahendra Engineering College, Namakkal.
10	17/03/2021	Mr. M. Mugilan, Kurigaii Technologies, Coimbatore.
11	18/03/2021	Mr. M. Mugilan, Kurigaii Technologies, Coimbatore.
12	19/03/2021	Dr. L. Malathi, Associate Professor, Dept. of CSE, Vivekanandha Educational Institutions for Women, Elayampalayam
13	20/03/2021	Dr. R. Venkatesan, Assistant Professor – III, School of computing information technology, Sastra Deemed University, Thanjavur
14	21/03/2021	Gokulpriya Suresh, Senior Software Engineer Accenture Solutions Private Limited, Chennai Area, India

Dr. A. RAJIV KANNAN, M.E., Professor and Head
Department of Computer Science and Engineer K.S.R. College of Engineering (Autonomous)
Tiruchengode - 637 215, Namakkai (Dt.)

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## K.S.R. COLLEGE OF ENGINEERING (AUTONOMOUS), TIRUCHENGODE - 637 215



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AICTE – Sponsored Two Week Faculty Development Programme (FDP) On 
"Intelligent Objects and Technologies for Building Applications on Data Science with 
Machine Learning Techniques using Internet of Things"

08<sup>th</sup> -21<sup>st</sup> March, 2021

**Participants** 

S. No.	Name of the Participant	Organization Name
1.	Mahalakshmi K	SSM College of Engineering
2.	Dr. Selvaraju P	SSM College of Engineering
3.	Dr. Ganesh kumar K	Velalar College of Engineering and Technology
4.	Loganathan R	Paavai Engineering College
5.	Kumari P	Excel Engineering College
6.	Sharmila C	Excel Engineering College
7.	Mohanraj P	Excel Engineering College
8.	Dr. Geetha K	Excel Engineering College
9.	Tamil selvan A	Sengunthar Engineering College
10.	Nivodhini M K	K.S.R. College of Engineering
11.	Sasikala G	Vivekanandha College of Engineering for Women
12.	Vasuki P	K.S.R. College of Engineering
13.	Vasudevan I	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
14.	Rajeshwari S	Mahendra Engineering College
15.	Latha S	Mahendra Engineering College
16.	Sindhuja D	Mahendra Engineering College

Co-ordinator

Dr. A. RAJIV KANNAN, M.E., Ph.O.
Professor and Head

Department of Cornputer Science and Engineering
K.S.R. College of Engineering (Autonomous)

—Tiruchengode - 637 215, Namakkal (Dt.)

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17	Santhosh C	Nandha Engineering College
18	. Anand R	Nandha Engineering College
19	. Giriprasath K S	Nandha Engineering College
20.	Abinaya N	Nandha Engineering College
21.	Dhivya P	Nandha engineering college
22.	Vivek pandiya raj	Vivekanandha College of Technology for Women
23.	Nisha sulthana N	Vivekanandha College of Technology for Women
24.	Kalaiselvi M	Vivekanandha College of Technology for Women
25.	Banupriya R	Vidyaa Vikas College of Engineering and Technology
26.	Manikandan M	Vidyaa Vikas College of Engineering and Technology
27.	Dr. Tamilarasi M	K.S.Rangasamy College of Technology
28.	Elanchezhiyan E	Paavai Engineering College
29.	Shanmugavalli V	Vivekanandha College of Engineering for women
30.	Santhiya P	Paavai Engineering College
31.	Dhivya R	Paavai Engineering college
32.	Mythili J	Sengunthar Engineering College
33.	Sivasankar R	Builders Engineering College
34.	Arun M	Builders Engineering College
35.	Dr. Rajan C	K.S.Rangasamy College of Technology
36.	Yogapriya	Paavai engineering college
37.	Dr. Nandhini P	Paavai Engineering college
38.	Dr. Sakthivel M	Sengunthar Engineering College
39.	Viswanathkani T	Vivekanandha College of Engineering for Women

Professor and Head

A RAJIV KANNAN, M.E., Professor and Head

A college of Engineering (Autonomous)

Tiruchengode - 637 215, Namakkal (Dt.) MEE

Principal

TIRUCHENGODE 637 215

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40	. Dr. Jayamurugan G	Sengunthar Engineering College
41	. Renukadevi P	Paavai Engineering College
42	Dr. Senthilmurugan P	K.S.Rangasamy College of Technology
43.	Dr. Kanagaraju P	K.S.Rangasamy College of Technology
44.	Kavishree R	Muthayammal Enginnering college
45.	Sudha K	Muthayammal Engineering College
46.	Dr. Santhosh J	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
47.	Dr. Sangeetha M	K.S.Rangasamy College of Technology
48.	Deepika J	Bannari amman Institute of Technology
49.	Rajagopal T K P	Hindusthan College of Engineering and Technology
50.	Dr. Sakthi govindaraju	Hindusthan College of Engineering and Technology
51.	Gowrisankar U	Erode Sengunthar Engineering College
52.	Satheesh kumar D	Hindusthan College of engineering and technology
53.	Dr. Dhiyanesh B	Hindusthan College of Engineering and Technology
54.	Priya N	Hindusthan College of engineering and technology
55.	Vaishnavi M	K.S.Rangasamy College of Technology
56.	Kaviya P	Muthayammal Engineering College
57.	Ramya M	Muthayammal Engineering College
58.	Kavitha S	Nandha Engineering College
59.	Maheswari S	Nandha Engineering College
60.	Vanitha P	Nandha Engineering College
61.	Deepa B	Nandha Engineering College
62.	Kavitha K	Nandha Engineering College

Professor and Head
Department of Computer Science and Engineering
K.S.R. College of Engineering (Autonomous)
Tiruchengode - 637 215, Namakkal (Dt.)

Principal

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TIRUCHENGODE 637 215

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63.	Padma E	Nandha Engineering College
64.	Dr. Ravikumar K	Builders Engineering College
65.	Vimalananthi S	SSM College of Engineering
66.	Agalya M	Vivekananda College of Technology for Women
67.	Prakash J	Hindusthan College of Engineering and Technology
68.	Dr. Thenmalar K	Vivekanandha College of Engineering for Women
69.	Sasikumar M S S	SSM College of Engineering
70.	Dr. Kalaiselvi K	SRM Institute of Science and Technology
71.	Dr. Sarumathi S	K.S.Rangasamy College of Technology
72.	Sathish P	SSM College of Engineering
73.	Veerasamy B	Hindusthan College of Engineering and Technology
74.	Dr. Deepa thilak K	SRM Institute of Science and Technology
75.	Ganesan M	Hindusthan College of Engineering and Technology
76.	Sudhakar K	Hindusthan College of Engineering and Technology
77.	Dr. Sabari A	K.S.Rangasamy College of Technology
78.	Dr. Sivaprakash S	CMR Engineering College
79.	Dr. Senthil kumar V	Malla Reddy Institute of Technology and Science
80.	Dr. Viswanathan A	Malla Reddy Institute of Technology and Science
81.	Sivapriya K	Vivekanandha College of Engineering for Women
82.	Dr. Malathi L	Vivekanandha College of Engineering for Women
83.	Sivaraman S	Vivekanandha College of Engineering for Women
84.	R Karthik	Vivekanandha College of Technology for Women
85.	Dr. Duraipandian M	Vivekanandha College of Technology for Women

HoD

Dr. A. RAJIV KANNAN, M.E., Ph.

Professor and Head

Department of Computer Science and Engineering
K. R. College of Engineering (Autonomous)

Tiruchengode - 637 215, Namakkal (Dt.)

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86.	Radhika D	Vivekanandha College of Engineering for Women
87.	Jeeva M	Vivekanandha College of Technology for Women
88.	Rajkumar T	Builders Engineering College
89.	Gobinath S	Builders Engineering College
90.	Dr. Nithya R	Vivekanandha College of Engineering for Women

HoD

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Department of Computer Science and Engineering (Autonomous)

Tiruchengode - 637 215, Namakkal (Dt.)

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## AICTE Sponsored FDP on Intelligent Objects & Technologies For Building Applications On Data Science With Machine Learning Techniques Using Internet Of Things



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