**2022-23**

# MANIPAL
### ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

Science and Engineering Research Board (SERB)
Department of Science and Technology (DST)
Govt. of India

N SERB INDIA

## Cmpa 2022

Science and Engineering Research Board [SERB], Govt. of India **Sponsored**

10th NATIONAL CONFERENCE ON

## CONDENSED MATTER PHYSICS AND APPLICATIONS

Organised by

DEPARTMENT OF PHYSICS, MANIPAL INSTITUTE OF TECHNOLOGY

December 02-03, 2022, Manipal

### Certificate of Appreciation

This is to certify that

Dr C. RENUKA

Department of Physics, K.S. Institute of Technology, Bengaluru

has presented a paper (Oral) entitled

Structural studies of Molybdo-phosphate glasses doped with $Zn^{2+}$ and Ci- ions.

in the 10th NATIONAL CONFERENCE ON CONDENSED MATTER PHYSICS AND APPLICATIONS, (CMPA-2022)

held at Manipal Institute of Technology, MAHE, Manipal.

ORAL PRESENTATION

Congratulations

| Dr. Sudha D Kamath | Dr. Raviprakash Y | Dr. Mohan Rao K | Commander (Dr.) Anil Rana |
|---|---|---|---|
| Co-Convener | Convener | Chairman | Director, MIT, Manipal |

# NPTEL-AICTE
## Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**AMULYASHREE S**

for successfully completing the course

## Applied Accelerated Artificial Intelligence

with a consolidated score of **66** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

**(Jul-Oct 2022)**

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL22CS83S44751061

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

# Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**SAHANA SHARMA**

for successfully completing the course

## Embedded System Design with ARM

with a consolidated score of **75** %

| Online Assignments | 22.38/25 | Proctored Exam | 52.75/75 |
|---|---|---|---|

Total number of candidates certified in this course: **305**

**Jul-Sep 2022**

**(8 week course)**

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION
**swayam**

Roll No: NPTEL22CS02S22152308

To validate the certificate

No. of credits recommended: 2 or 3

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## Certificate of Participation

This is to certify that

Sanjoy Das

has successfully completed the "Five Days Faculty Development Programme" on
**"Recent Advancements in Data Intelligence & its Applications"** jointly organized by
**"Jyothy Institute of Technology and Visvesvaraya Technological University (VTU)"**
from 24th to 28th April, 2023.

**Dr. Kishore G R**
Main Co-ordinator, FDP

**Dr. Divakar H V**
HOD-ISE

**Dr. Gopalakrishna K**
Principal, JIT

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www.aicjitf.org

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SWAPNA SUBHASH BANASODE.

has successfully completed the "Five Days Faculty Development Programme" on
**"Recent Advancements in Data Intelligence & its Applications"** jointly organized by
**"Jyothy Institute of Technology and Visvesvaraya Technological University (VTU)"**
from 24th to 28th April, 2023.

Dr. Kishore G R
Main Co-ordinator, FDP

Dr. Divakar H V
HOD-ISE

Dr. Gopalakrishna K
Principal, JIT

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**ABHILASH  L  BHAT.**

has successfully completed the "Five Days Faculty Development Programme" on
**"Recent Advancements in Data Intelligence & its Applications"** jointly organized by
**"Jyothy Institute of Technology and Visvesvaraya Technological University (VTU)"**
from 24th to 28th April, 2023.

Dr. Kishore G R
Main Co-ordinator, FDP

Dr. Diwakar H V
HOD-ISE

Dr. Gopalakrishna K
Principal, JIT

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# Contemporary Research Trends in Plant Leaf Disease Detection

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*Abstract*— Agriculture is the backbone of Indian economy. Crop yield is decreased due to various disease-causing organism on plants. Plant disease identification has major impact on the agriculture production with respect to crop quality and quantity. Disease infected plants show symptoms on many parts of the plant like leaf, stem, bud, flower, fruit and root. Early identification of the disease will prevent further crop loss. In this paper, four different sections are covered. The first section focuses on different types of disease and its symptoms. Second section discuss about different traditional methods of disease identification. And the third section cover methodologies that can be used for disease identification in plants through image processing, deep learning and convolution neural network techniques. Fourth section highlights challenges and future trends in disease identification. Finally, this paper reveals that, particularly in rural areas and underdeveloped nations, relying solely on the expertise of professionals to identify and categorize diseases can be very much time-consuming and expensive.

*Keywords—agriculture, convolution neural network, disease detection, deep learning, plant disease.*

## I. INTRODUCTION

Agriculture is method to feed growing population. Indian economy is dependent on agriculture. More than 70% of Indian population rely on farming. The significance of agriculture has dropped since the revolution of industrialization. Around 17% to absolute GDP is payable by the agriculture, hence it is important to solve issues faced by farmers in the field of agriculture. One of major issue is disease detection in plant which is threat to farmers because it causes reduction in yield as wells as quality [1].

The major driving factor that provides existence of life on the earth from lowest primitive in the food chain is plants. All these plants are susceptible to various diseases as they are exposed to the different climatic conditions of nature. Rapid identification of leaf diseases remains difficult due to the lack of the necessary changes in agriculture practice and infrastructure. Plant disease can cause adverse consequences to the farmers whose livelihood mainly depend on the market of healthy crops and they are the major trouble causers for the food security. In the evolving world, greater than 80 percent of the agricultural production are risen by the farmers. Yield loss of more than 50% is due to diseases and pests. Few decades here after, population is awaited to grow by 100 million a year, hence there is a constraint on usage of water, soil and many other natural resources. Due to these circumstances developing countries like India have to increase their food production twice in number to feed the growing population.

Farmer's financial cycle is dependent on the kind of crop they produce, which in turn depends on the plant's development and the final yield that they might get. Therefore, in field of farming, identification of diseases is a critical task [2]. Plants are the essential attribute for the survival of all the creatures on the Earth. Plant diseases are the key factor for the crop losses in the agriculture. Due to the importance of plants in the food chain, focus has to be given on the measures that can be taken to detect and diminish diseases in the plants. This paper presents a brief detail about common leaf diseases and methodology used to detect the same.

## II PLANT DISEASE TYPES WITH SYMPTOMS

Plants turns into diseased due to disruption caused by the causal agent which results in an abnormal physiological process that disturbs the plant's growth, normal physical structure, and many other activities. This involvement of the agent with any of the plant's essential physiological or biochemical systems turns into a symptom which can be characterized. Diseases in the plants are classified based on the features of the agent, which can be either infectious or non-infectious [3]. Plant diseases which are infectious are caused due to pathogenic organism such as a bacteria, fungi, mycoplasma, virus, nematode, or parasitic flowering plant. An infectious agent has ability of spreading the infection from one liable host to another or reproducing inside the same host. Plant diseases which are non infectious are caused due to unfavourable growing conditions, like temperature extreme, excess or deficiency of minerals, noxious components in soil, chemical changes in the atmosphere, changes in the composition of moisture and oxygen. Non-infectious agents do not carry organisms capable of reproducing within a host nor they are contagious. The various plant leaf disease with common symptom is listed below with brief information about the symptoms of the disease

### A. Powdery Mildew

Powdery mildew disease affected in plants is indicated usually by the white dusty coating on flowers, stems and leaves as shown in Fig 1.



Fig 1. Powdery mildew leaf disease

440

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at Infosys Campus, Mysuru

Prof. S.Sadagopan
Chairman, BITES

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## OF PARTICIPATION

## This is to certify that

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from K.S.I.T........Bangalore................... has participated in
'BITES Annual Convention 2022' organized by
BITES on 10th & 11th February, 2023
at Infosys Campus, Mysuru.

*S. Sadagopan*

Prof. S.Sadagopan
Chairman, BITES

**BITES**
BOARD FOR IT EDUCATION STANDARDS

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## Cryptography and Network Security

with a consolidated score of **81** %

| Online Assignments | 19.6/25 | Proctored Exam | 61.5/75 |
|---|---|---|---|

Total number of candidates certified in this course: **1810**

Jul-Oct 2022

(12 week course)
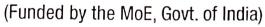
Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

## DR SUREKHA BORRA

for successfully completing the course

## Effective Writing

with a consolidated score of **76** %

| Online Assignments | 24.5/25 | Proctored Exam | 51/75 |
|---|---|---|---|

Total number of candidates certified in this course: **3804**

**Prof. Sanjeev Manhas**
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023

**(4 week course)**

**Prof. Priti Maheshwari**
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

FREE ONLINE EDUCATION
**swayam**

# Elite

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(Funded by the MoE, Govt. of India)

This certificate is awarded to

## DR CHANDA V REDDY

for successfully completing the course

## Modern Digital Communication Techniques

with a consolidated score of **63** %

| Online Assignments | 21.22/25 | Proctored Exam | 41.33/75 |
|---|---|---|---|

Total number of candidates certified in this course: **73**

**Jul-Oct 2022**

**(12 week course)**

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

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# Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

**TOPPER**

This certificate is awarded to

**REKHA N**

for successfully completing the course

## Modern Digital Communication Techniques

with a consolidated score of **76** %

| Online Assignments | 22.1/25 | Proctored Exam | 54/75 |
|---|---|---|---|

Total number of candidates certified in this course: **73**

Jul-Oct 2022

**(12 week course)**

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

**swayam**
FREE ONLINE EDUCATION

No: NPTEL22EE118S34751862     To validate the certificate     No. of credits recommended: 3

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

## DR DINESH KUMAR D S ✓

for successfully completing the course

## Digital Electronic Circuits

with a consolidated score of **45** %

| Online Assignments | 13.6/25 | Proctored Exam | 31.5/75 |
|---|---|---|---|

Total number of candidates certified in this course: **245**

Jan-Apr 2023

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

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Roll No: NPTEL23EE50S43234943          To validate the certificate          No. of credits recommended: 3 or 4

IEEE        tttc

## B. M. S. COLLEGE OF ENGINEERING
### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

# CERTIFICATE
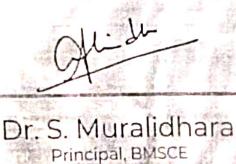## OF PARTICIPATION

### THIS IS TO CERTIFY THAT

*Praveen A*

has participated in the workshop on **VLSI TEST AND RELIABILITY** organized by **Department of Electronics and Communication Engineering** in association with **Test Technology Technical Council(TTTC)** held at B. M. S. College of Engineering from 16th to 18th March 2023.

**Mr. Sameer Chillarige**
General Chair, ITC

**Dr. Siddappaji**
HOD, ECE

**Dr. S. Muralidhara**
Principal, BMSCE

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## Certificate of Participation

This certificate is presented to Dr./Ms./Mr. **Ranjitha K N**      Assistant Professor

of      K.S.Institute of Technology      for learning and actively participating in the

Faculty Development Programme on "Feature Engineering in Data Science and Deep Learning Models" conducted during August 25 – 29, 2021 at Global Academy of Technology, Bengaluru in association with Indian Institute of Information Technology, Allahabad.

Dr. Bhagyashri R Hanji

Dr. Ashwini B.

Dr. N. Rajapraksh Reddy

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## *Certificate of Participation*

This certificate is presented to Dr./Ms./Mr. **Beena** Assistant Professor

of _____ **K.S.Institute of Technology** _____ for learning and actively participating in the

Faculty Development Programme on "Feature Engineering in Data Science and Deep Learning Models" conducted during August 15 – 29,

2021 at Global Academy of Technology, Bengaluru in association with Indian Institute of Information Technology, Allahabad.

Dr. Bhagyashri R Hanji
Professor & Head, CSE

Dr. Ashwini K
Professor & Head, IS/IS

Dr. N. Rangaswamy Reddy
Principal, GAT

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Bengaluru, India

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Thank you

KUSHAL KUMAR B N

of .....KSIT BENGALURU

for participating in Five Day Faculty Development Program on Art of Mentoring, held between the 10th and 15th of February, 2022.

Organizing Chair
School of CSE
REVA University

Deputy Director,
School of CSE
REVA University

Dean
School of CSE & CIT
REVA University

Vice Chancellor
REVA University

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### 8 - 9 March, 2021

This is to certify that _____ **Mr. HARSHAVARDHAN J.R, Associate Professor** _____ from

_____ **K S Institute of Technology** _____ has actively participated in

all sessions of a Two Day Faculty Development Program on **Mobile Application Development**

organized by Department of Computer Science and Engineering, Cambridge Institute of

Technology, Bangalore.
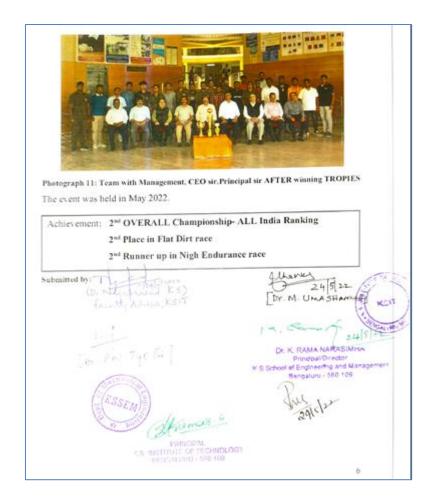
**Dr. Shashikumar D. R.**
HoD, Dept. of CSE

**Dr. Yogesh Velankar**
Principal

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Two Day Faculty Development Program on

## MOBILE APPLICATION DEVELOPMENT

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This is to certify that _____ **Mr. RAGHAVENDRACHAR S, Assistant Professor** _____ from

_____ **K S Institute of Technology** _____ has actively participated in

all sessions of a Two Day Faculty Development Program on **Mobile Application Development**

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Technology, Bangalore.

**Dr. Shashikumar D. R.**
HoD, Dept. of CSE

**Dr. Yogesh Velankar**
Principal

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**Two Day Faculty Development Program on**

# MOBILE APPLICATION DEVELOPMENT

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This is to certify that _____ **Mr. Prashanth H S, Assistant Professor** _____ from

_____ **K S Institute of Technology** _____ has actively participated in

all sessions of a Two Day Faculty Development Program on **Mobile Application Development**

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Technology, Bangalore.

**Dr. Shashikumar D. R.**
HoD, Dept. of CSE

**Dr. Yogesh Velankar**
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## OF PARTICIPATION

Two Day Faculty Development Program on

## MOBILE APPLICATION DEVELOPMENT

### 8 - 9 March, 2021

This is to certify that **Ms.Beena K, Assistant Professor** from

**K S Institute of Technology** has actively participated in

all sessions of a Two Day Faculty Development Program on **Mobile Application Development**

organized by Department of Computer Science and Engineering, Cambridge Institute of

Technology, Bangalore.

**Dr. Shashikumar D. R.**
HoD, Dept. of CSE

**Dr. Yogesh Velankar**
Principal

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**INSTITUTION'S INNOVATION COUNCIL**
(Ministry of Education Initiative)

# All terrain Vehicle Mega Championship 2021 held at Goa
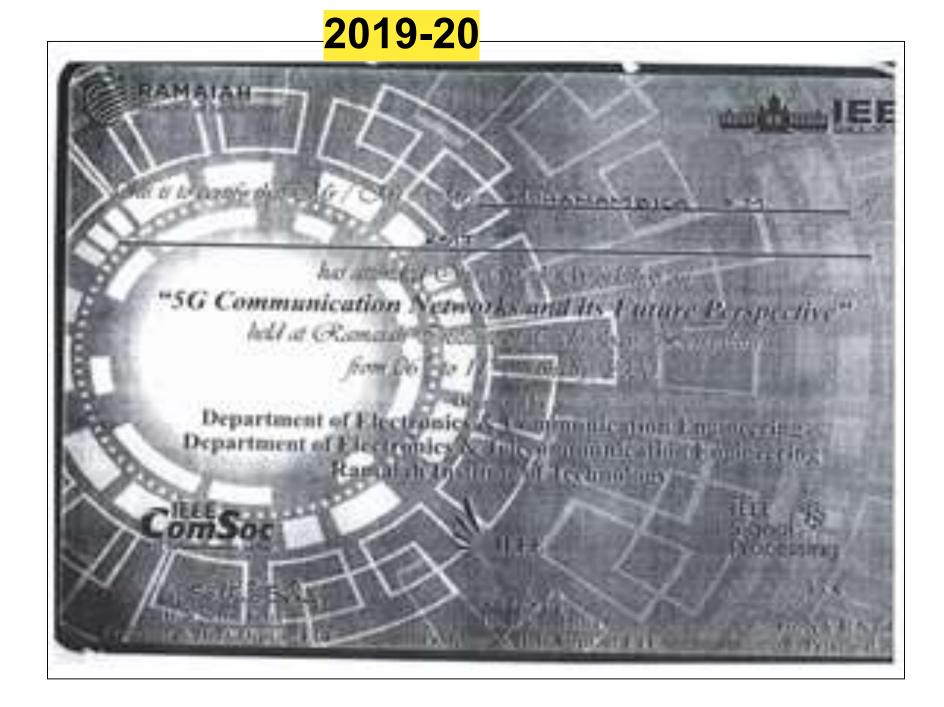
**Proof documents**

A Report on

## 'MEGA ATV CHAMPIONSHIP 2022'

From 11ᵗʰ to 15ᵗʰ May 2022 at Querim Beach, Goa

Organized by Autosport India in association with FMSCI

Team Redline Racing had decided to participate in the event Mega ATV Championship Season-VI organized by Autosport India in association with FMSCI. This was our 3ʳᵈ year participation for the event. We had successfully cleared the virtual rounds of the event which was the entry criteria for the event. Once completing the virtual round, we started building the vehicle and tested it thoroughly.

The team was formed includes studentes for mechanical engg., Electronics and Comm. Engg. of both institutes K S Institute of Technology and K S School Engineering and Management (KSSEM); permissions were taken from **Dr. K V A Balaji**, CEO, KSGI; **Dr.K. Rama Narasimha**, Principal, KSSEM; **Dr. Balaji B**, Head, Dept. of Mech. Engg., and permission from **Dr. Dilip Kumar K**, Principal, KSIT and **Prof. Umashankar M**, Head, Dept. of Mech. Engg.

As we had the vehicle ready and testing was done in 'dirt mania track', kanakapura Road, gave driver more practice as we could not find time for drivers practice previous year. The Mega ATV championship track is more dynamic oriented which will be vigorous than the Baja track. So to strengthen the vehicle we had cooling system for motor and support structures which are small in size but will impact in larger scale when applied in practically.

**TEAM DETAILS:**

Faculty advisors: **Dr. Nagaprasad. K.S.**

**Dr. Balaji B**

Team Members:

| Sl.no | NAME | USN | College | SEM&BRANCH |
|---|---|---|---|---|
| 1. | Anirudh R Srivatsa | 1KS18ME005 | KSIT | 7ᵗʰ sem, Mechanical |
| 2. | Akhil Jith K S | 1KS18ME002 | KSIT | 7ᵗʰ sem, Mechanical |
| 3. | Jagruth S | 1KS47ME029 | KSIT | 7ᵗʰ sem, Mechanical |
| 4. | Gagan Kumar G | 1KS18EC03* | KSIT | 7ᵗʰ sem, Electronics |
| 5. | Giridhar M P | 1KS18IE026 | KSIT | 7ᵗʰ sem, Mechanical |
| 6. | Sumukha T V | 1KS18ME072 | KSIT | 7ᵗʰ sem, Mechanical |
| 7. | Arun Kumar M | 1KS19ME004 | KSIT | 5ᵗʰ sem, Mechanical |
| 8. | R Deepak A Rao | 1KS19ME024 | KSIT | 5ᵗʰ sem, Mechanical |
| 9. | Jashwanth S | 1KS19ME013 | KSIT | 5ᵗʰ sem, Mechanical |
| 10. | Tilak S | 1KS19ME036 | KSIT | 5ᵗʰ sem, Mechanical |
| 11. | Venkataramana G Bhat | 1KS19ME039 | KSIT | 5ᵗʰ sem, Mechanical |
| 12. | Darshan Gowda K M | 1KG17ME011 | KSSEM | 7ᵗʰ sem, Mechanical |

Photograph 11: Team with Management, CEO sir, Principal sir AFTER winning TROPIES

The event was held in May 2022.

| Achievement: | 2nd OVERALL Championship- ALL India Ranking |
| | 2nd Place in Flat Dirt race |
| | 2nd Runner up in Nigh Endurance race |

Submitted by:

(D. N........ K S)
Faculty Advisor, KSIT

Dr. M. UMASHANKAR    24/5/22

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

6



**Student certificate**

**RAMAIAH**
Institute of Technology

IEEE
BANGALORE

This is to certify that Mr / Ms / Mrs _VEDA B_ of

_KSIT_

has attended One Week Workshop on

## "5G Communication Networks and its Future Perspective"

held at Ramaiah Institute of Technology, Bengaluru

from 06th to 11th January, 2020

Organized by

**Department of Electronics & Communication Engineering**
**Department of Electronics & Telecommunication Engineering**
**Ramaiah Institute of Technology**

IEEE
ComSoc
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Processing
Society

S. Sethu Selvi
**Dr. S Sethu Selvi**
Professor & HoD, Dept. of ECE

Sujatha
**Dr. B K Sujatha**
Professor & HoD, Dept. of ETE

**Dr. N V R Naid**
Principal

**IEEE**
Bangalore Section

NAGARJUNA

# CERTIFICATE OF PRESENTATION

This Certificate is proudly presented to

Mr/Ms. ARUNA RAO B.P

From

KSIT, BANGALORE

for presenting paper entitled

"DESIGN AND MODELING OF INPUT OUTPUT FUNCTIONALITIES

OF FPGA BASED IO BLOCK"

" **GLOBAL CONFERENCE FOR ADVANCEMENT IN TECHNOLOGY** "
Bangalore , India 18th – 20th October , 2019

Dr. Shantakumar B Patil
(General Chair)

# Certificate of Participation

This is to certify that

## Nithya Kumari

participated in the

### 'One day Workshop on eSim, a First Course in the IoT Series for Teachers'

held at K S School Of Engineering & Management
on **21 September 2019.**

This training was organised by the Teaching Learning Centre ICT at IIT Bombay,
funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India

**Prof. Kannan Moudgalya**
Project Coordinator, Teaching Learning Centre,
PMMMNMTT, IIT Bombay

**Prof. Pramod Murali**
Co-Principal Investigator, FOSSEE
Department of Electrical Engineering
IIT Bombay

Spoken Tutorial

fossee
Promoting FreeLibre and
Open Source Software

NATIONAL MISSION ON
TEACHERS AND TEACHING

# Certificate of Participation

This is to certify that

## Shilpa V

participated in the
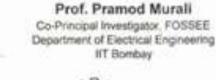
### 'One day Workshop on eSim, a First Course in the IoT Series for Teachers'
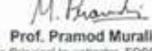
held at K S School Of Engineering & Management
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This training was organised by the Teaching Learning Centre ICT at IIT Bombay,
funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India

**Prof. Kannan Moudgalya**
Project Coordinator, Teaching Learning Centre,
PMMMNMTT, IIT Bombay

**Prof. Pramod Murali**
Co-Principal Investigator, FOSSEE
Department of Electrical Engineering
IIT Bombay

Spoken Tutorial

Promoting Free/Libre and
Open Source Software

MADAN
MOHAN
MALAVIYA
NATIONAL MISSION ON
TEACHERS AND TEACHING

This training was made possible with help from Spoken Tutorial and FOSSEE Projects at IIT Bombay
These Projects are funded by the National Mission on Education through ICT, MHRD, Govt. of India.

For details and verification,
scan the QR code.

# MEMORANDUM OF UNDERSTANDING

## BETWEEN

# INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY –HYDERABAD FOUNDATION (IIIT-H Foundation)

## AND

# K S INSTITUTE OF TECHNOLOGY BANGALORE

This Memorandum of Understanding ("MOU") is entered into and effective as of 23rd January Two Thousand and Nineteen (Effective Date) by and between:

M/s. International Institute of Information Technology-Hyderabad Foundation (formerly known as Banyan Intellectual Initiatives), a Society registered under the AP Societies Registration Act, 2001 with its principal office situated at International Institute of Information Technology-Hyderabad, Gachibowli, Hyderabad – 500 032, Telangana; represented by the Chief Operations Officer, Shri. Ramesh Loganathan (hereinafter referred to as the "IIIT-H Foundation", which term shall, unless repugnant to or inconsistent with the context mean and include its directors, office bearers, successors in interest, legal representatives, nominees, and permitted assigns) being the party OF THE FIRST PART;

## AND

M/s. Kammavari Sangha Institute of Technology represented by The Principal, (Designated Partner) (hereinafter referred to as KSIT, which term shall, unless repugnant to or inconsistent with the context mean and include its directors, office bearers, successors in interest, legal representatives, nominees, and permitted assigns) being the party OF THE SECOND PART.

## WHEREAS:

A.   IIIT-H Foundation is a business incubator committed to the mission of being the thought leader in new age technologies like visual informatics, data engineering, machine learning, medtech technologies, language technologies, gaming and robotics. Its focus is in providing startups with advisory services in areas of company strategy, fund raising, product design and development, technology, marketing, sales, human resources, building communities, seeding ecosystem and supporting startups working on technologies.

K. S. Institute of Technology (KSIT) established in the year 1999 by the Kammavari Sangham with a commitment to provide value based Technical Education. The Objective of KSIT is to impart quality education to students and enable them to develop the abilities of problem solving, creative thinking and adaptability in their chosen field. The Institution has Well-Qualified, Experienced & Dedicated faculty members. KSIT has excellent laboratories for practical training, state of the art computing facilities and spacious classrooms with good infrastructure. KSIT is in the process of expanding its Product R&D, Start-up Incubation activities. It would like to collaborate with IIIT-H foundation in areas of common interest in these activities.

The two institutes have decided to collaborate in the following manner:

2.  **Termination**

Either Party shall have the right to terminate this MOU without assigning any reason, by giving a 30 (thirty) days written notice prior to date of termination.

3.  **Term of MOU**

This MOU shall commence on Effective Date and shall, subject to the provisions of Clause 6 above, continue to be in effect for 3 (three) years from the Effective Date. Upon expiry of the period, this MOU can be renewed for successive period of 1 (one) year unless terminated by either party through notice in writing or communication ensuring evidence and date of receipt.

**IN WITNESS WHEREOF,** the parties hereto have executed this MOU by persons duly authorized as of the date and year first above written

| For International Institute of Information and Technology – Hyderabad Foundation | For KSIT |
|---|---|
| Signature: | Signature: |
| Name: Prof. Ramesh Loganathan | Name: Dr. T V Govindaraju |
| Designation: COO | Designation: Principal/Director |
| Address: International Institute of Information Technology-Hyderabad, Gachibowli, Hyderabad – 500 032, Telangana. | Address: K S Institute of Technology Kanakpura road,- Bangalore – 560 109 Karnataka |
| Date: 23rd January 2019 | Date: 23rd January 2019 |
| Seal: | Seal: PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109 |

Witnesses:

1. 

2. 

1. Sri K. Venkatesh Naidu
Hon. Secretary, KSGI, Bengaluru-560109

2. Dr. Joy Prabhakaran,
KRP and Professor in ECE, KSIT

1.  **Objective of the MoU:**

    Parties hereby agree to partner with each other to support the KSIT product R&D and startup incubation program and form a broad understanding with the following responsibilities.
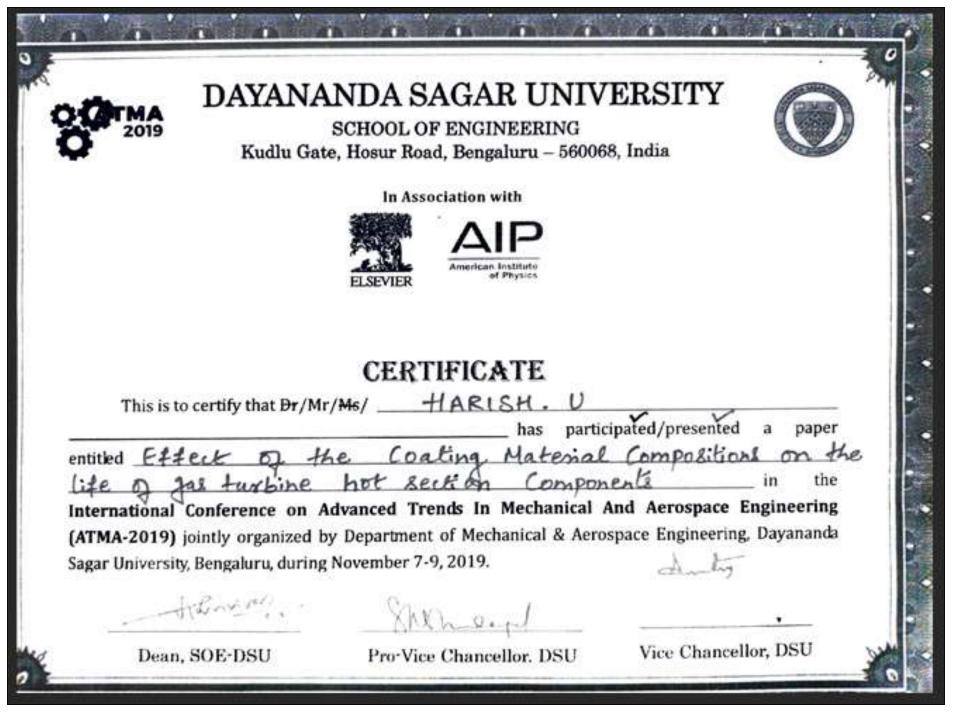
    a) Each Party shall appoint a representative to coordinate the Program on its behalf. Such appointed representative will periodically review the activities and identify ways to strengthen cooperation between the two Parties for meeting the objectives of this MOU. Whenever required, they will seek approval from their respective organizations.

    b) The identified representative shall be responsible for the management of engagements, agenda and tasks, communication with partners/ participants/startups, meetings and reporting and preparation of any agreement and its implementation thereof.

    c) Both the institutions agree to have joint research activities as well as exchange of students and faculty as and when required and on a case to case basis
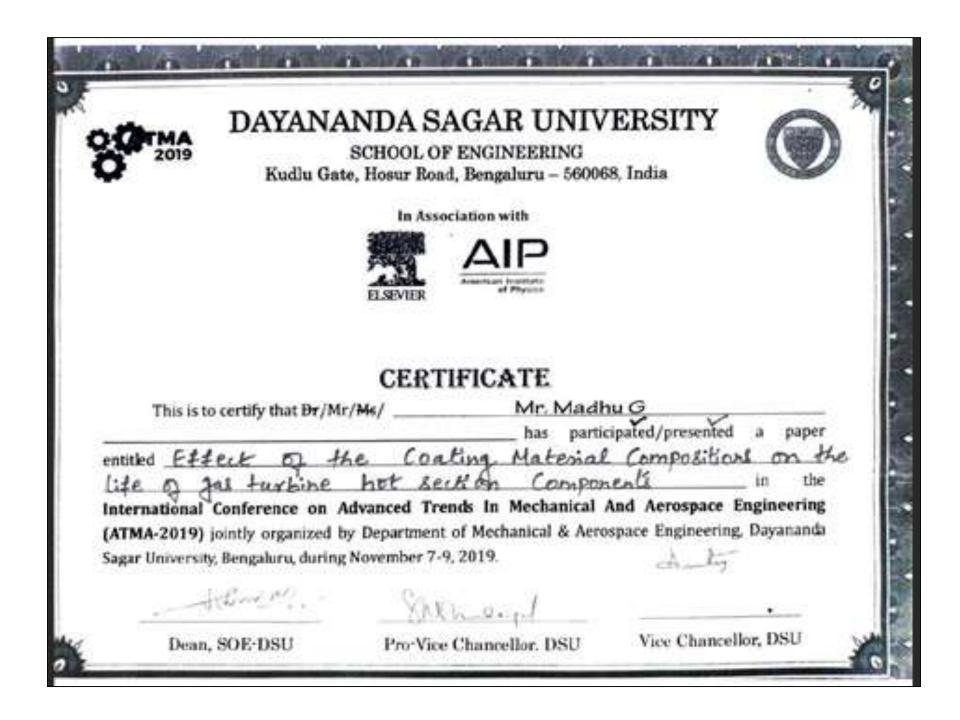
    **Responsibilities of IIIT-H**

    a) IIIT H to provide guidance on mentoring frameworks for startups and setting up of resident incubator. This could extend to Faculty Development Programs with substantial focus on technology.

    b) IIIT H To encourage regular/facilitated engagement programs in the areas of Idea Validation, go to market programs etc.

    **Responsibilities of KSIT**

    a) KSIT to identify R&D work from the staff or students that can be candidates for potential collaboration with the IIIT-H foundation.

    b) For each identified candidate for collaboration, KSIT & IIIT-H would jointly examine what kind of collaboration will be possible. This could include:
    
    a. Areas of collaboration with the faculty of IIIT H if there is an active interest.
    
    b. Areas of common interest with other startups incubated by IIIT H.
    
    c. When possible, training and guidance in areas where there is a gap.

    c) KSIT shall organize, manage and conduct events for the benefit and advancement in line with their mission to enable student startups

# DAYANANDA SAGAR UNIVERSITY

## SCHOOL OF ENGINEERING

Kudlu Gate, Hosur Road, Bengaluru – 560068, India

**In Association with**

ELSEVIER

**AIP**
American Institute of Physics

## CERTIFICATE

This is to certify that ~~Dr~~/Mr/~~Ms~~/ _HARISH. U_ has participated/presented a paper entitled _Effect of the Coating Material Compositions on the life of gas turbine hot section Components_ in the **International Conference on Advanced Trends In Mechanical And Aerospace Engineering (ATMA-2019)** jointly organized by Department of Mechanical & Aerospace Engineering, Dayananda Sagar University, Bengaluru, during November 7-9, 2019.

Dean, SOE-DSU

Pro-Vice Chancellor, DSU

Vice Chancellor, DSU

# DAYANANDA SAGAR UNIVERSITY

## SCHOOL OF ENGINEERING

Kudlu Gate, Hosur Road, Bengaluru – 560068, India

**In Association with**

ELSEVIER

**AIP**
American Institute of Physics

## CERTIFICATE

This is to certify that Dr/Mr/Ms/ _____ Mr. Madhu G _____ has participated/presented a paper entitled _Effect of the Coating Material Compositions on the life of gas turbine hot section Components_ in the **International Conference on Advanced Trends In Mechanical And Aerospace Engineering (ATMA-2019)** jointly organized by Department of Mechanical & Aerospace Engineering, Dayananda Sagar University, Bengaluru, during November 7-9, 2019.

| Dean, SOE-DSU | Pro-Vice Chancellor, DSU | Vice Chancellor, DSU |

This is to certify that Mr / Ms / Mrs ___DINESH KUMAR D S___ of

___KSIT___

has attended One Week Workshop on

## "5G Communication Networks and its Future Perspective"

held at Ramaiah Institute of Technology, Bengaluru

from 06ᵗʰ to 11ᵗʰ January, 2020

Organized by

**Department of Electronics & Communication Engineering**
**Department of Electronics & Telecommunication Engineering**
**Ramaiah Institute of Technology**

**IEEE ComSoc**
IEEE Communications Society

**IEEE**

**IEEE Signal Processing Society**

S. Sethu Selvi
**Dr. S Sethu Selvi**
Professor & HoD, Dept. of ECE

**Dr. B K Sujatha**
Professor & HoD, Dept. of ETE

**Dr. N V R Naidu**
Principal

II Jai Sri Gurudev II

Sri Adichunchanagiri Shikshana Trust ®

# SJB Institute of Technology

(Affiliated to VTU, Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade)

No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru – 560 060. Karnataka, India.

## Department of Computer Science & Engineering

# Certificate

This is to certify that Mr/Mrs. ....VANEETA M.............................................................

of ........KSIT, Bengaluru.........................................................has participated in

Six Days Workshop on **"Machine Learning"** held from 9th – 14th July 2018, Organised by the Department of

Computer Science & Engineering, SJB Institute of Technology, Bengaluru - 60.

Dr. Krishna A N
**HOD & Convener**

Dr. Puttaraju
**Principal**

**Ethnotech Academic Solutions**

Rev. Sri Sri Dr. Prakashnath Swamiji
**Managing Director**

# SJB Institute of Technology

(Affiliated to VTU, Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade)

No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru – 560 060. Karnataka, India.

## Department of Computer Science & Engineering

# Certificate

This is to certify that Mr/Mrs. **P Poulyanga**

of **KSIT, Bengaluru** has participated in

Six Days Workshop on **"Machine Learning"** held from 9th – 14th July 2018, Organised by the Department of

Computer Science & Engineering, SJB Institute of Technology, Bengaluru - 60.

Dr. Krishna A N
HOD & Convener

Dr. Puttaraju
Principal

Ethnotech Academic Solutions

Rev. Sri Sri Dr. Prakashnath Swamiji
Managing Director

# Indian Technology Congress 2018

## Technology First

Make India Innovate, Excel Globally and Prosper

Connected Farming - Indian AgriTech Space

International Seminar on Students' Satellites

# Certificate of Participation

This is to certify that

**Dr. Rekha B Venkatapur**

**Professor & Head, CSE**

**KSIT, Bengaluru**

participated in the Indian Technology Congress - 2018
during 05 - 06 September 2018
at NIMHANS Convention Centre, Bangalore.

INDIAN
**TECHNOLOGY**
CONGRESS

05-06 September 2018
NIMHANS Convention Centre
Bengaluru

Organised By

www.techcongress.net

**Dr. L.V. Muralikrishna Reddy**
Chairman - Organising Committee
Indian Technology Congress - 2018

**Prof. R.M. Vasagam**
Chairman - National Advisory Committee
Indian Technology Congress - 2018

# GLOBAL RESEARCH ACADEMY

### Scientific & Industrial Research Organisation

[Autonomous]

**Hyderabad, Telangana State, India**
Approved by Ministry of Science & Technology, Govt. of India
An ISO 9001:2015 Certified Organisation
www.gracad.in

## Certificate Of Appreciation

This certificate is awarded to Prof./Dr./Mr./Ms. __Dayananda P.B.__

from __KammaVari Sangha Institute of Technology, Bengaluru__ as a token of 'India

appreciation for his/her remarkable achievements and outstanding contributions in the field of

__Research, Publications and Teaching in Engineering Discipline__

in the First International Conference on MultiDisciplinary Research, 2017-18 organised by

Global Research Academy in Hyderabad City, Telangana State, India on 10th November, 2018.

**CHAIRMAN**

**DIRECTOR GENERAL**

# Certificate

Certificate No : EXLRIOT**204**

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EXCELR SOLUTIONS (USA)
201 S High Point Road APT 213 ,
Madison , Wisconsin - 53717 USA
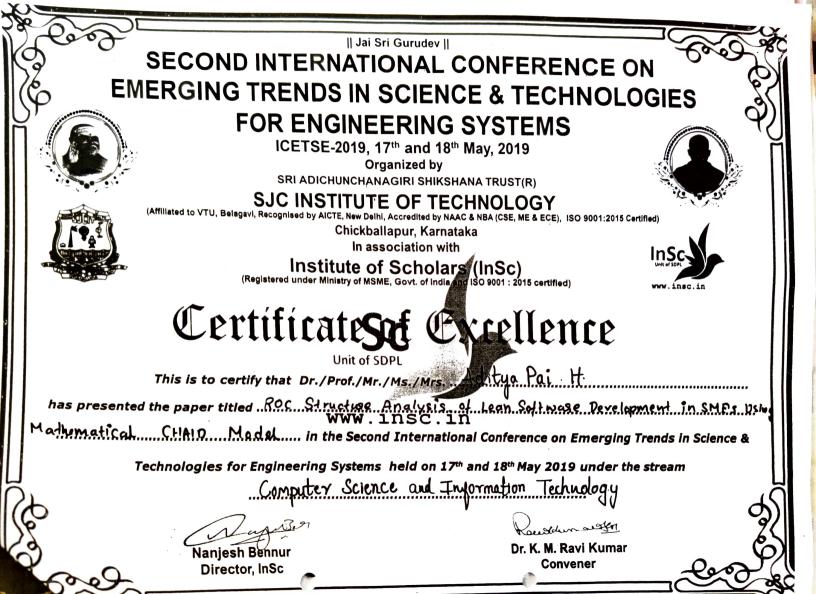
Certifies that

# Ashwini

Has Successfully Participated in Training Program on
## Internet of Things (IoT)

Held  from 23rd Sept'18 to 19th Oct'18

*Ram*
Director

An ISO 9001 : 2008 Certified Company

|| Jai Sri Gurudev ||

# SECOND INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN SCIENCE & TECHNOLOGIES FOR ENGINEERING SYSTEMS

ICETSE-2019, 17th and 18th May, 2019

Organized by

SRI ADICHUNCHANAGIRI SHIKSHANA TRUST(R)

## SJC INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi, Recognised by AICTE, New Delhi, Accredited by NAAC & NBA (CSE, ME & ECE), ISO 9001:2015 Certified)

Chickballapur, Karnataka

In association with

## Institute of Scholars (InSc)

(Registered under Ministry of MSME, Govt. of India and ISO 9001 : 2015 certified)

**InSc**
Unit of SDPL
www.insc.in

# Certificate of Excellence

Unit of SDPL

This is to certify that Dr./Prof./Mr./Ms./Mrs. ...........Aditya Pai H...........

has presented the paper titled ...ROC Structure Analysis of Lean Software Development in SMEs Using
Mathematical CHAID Model... in the Second International Conference on Emerging Trends in Science &

Technologies for Engineering Systems held on 17th and 18th May 2019 under the stream

Computer Science and Information Technology

www.insc.in

**Nanjesh Bennur**
Director, InSc

**Dr. K. M. Ravi Kumar**
Convener

Rashtreeya Sikshana Samithi Trust

# R V COLLEGE OF ENGINEERING

(Autonomous Institution Affiliated to VTU, Belagavi)

## Bengaluru - 560059, Karnataka

**IEEE COMMUNICATIONS SOCIETY**

# CERTIFICATE

This is to certify that ~~Mr. / Ms.~~ _Prof. V. Sangeetha_

of _Kammavari Sangha Institute of Technology_ has participated in the One-week Faculty Development Program on **"Emerging Technologies in Short Range Wireless Communication"** organized by the Department of Telecommunication Engineering, RVCE and technically Co-supported by RVCE-IEEE Communication Society, held at R.V. College of Engineering, Bengaluru held during $2^{nd}$ - $6^{th}$ July 2018.

**Dr. G. Sadashivappa**
*Chief Coordinator*

**Dr. K.N. Subramanya**
*Principal, RVCE*

JSS MAHAVIDYAPEETHA

# JSS ACADEMY OF TECHNICAL EDUCATION

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**
**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, INDIA
Approved by All India Council for Technical Education, New Delhi
UG programs accredited by NBA: ECE, CSE, ISE, CIVIL, MECHANICAL, IEM, E & IE

## ATTENDANCE CERTIFICATE

This is to certify that Dr./Mr./Ms./ .....SAHANA......SALAGARE..........................................................

of ..K.S...INSTITUTE...OF...TECHNOLOGY.......has attended Two day National Symposium

jointly organized by Dept. of Electronics & Communication Engineering, Dept. of Electronics &

Instrumentation Engineering, and Centre for Inter- Disciplinary Research, JSS Academy of Technical

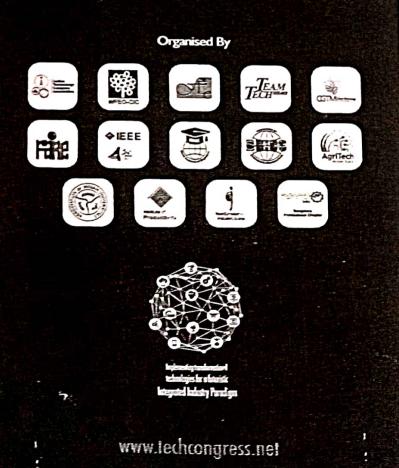Education, Bengaluru on 4$^{th}$ & 5$^{th}$ July 2018.

Co- Convenor

ECE / EIE, JSSATE,
Bengaluru-60

# Indian Technology Congress 2018

## Technology First

Make India Innovate, Excel Globally and Prosper

Connected Farming - Indian AgriTech Space

International Seminar on Students' Satellites

# Certificate of Participation

This is to certify that

**Dr. P.N. Sudha**

**Professor & Head, ECE**

**KSIT, Bengaluru**

participated in the Indian Technology Congress - 2018
during 05 - 06 September 2018
at NIMHANS Convention Centre, Bangalore.

**Dr. L.V. Muralikrishna Reddy**
Chairman - Organising Committee
Indian Technology Congress - 2018

**Prof. R.M. Vasaga**
Chairman - National Advisory Committe
Indian Technology Congress - 20

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## INDIAN TECHNOLOGY CONGRESS

05-06 September 2018
NIMHANS Convention Centre
Bengaluru

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# INDIAN TECHNOLOGY CONGRESS

**05-06 September 2018**
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# Indian Technology Congress 2018

## Technology First

Make India Innovate, Excel Globally and Prosper

Connected Farming - Indian AgriTech Space

International Seminar on Students' Satellites

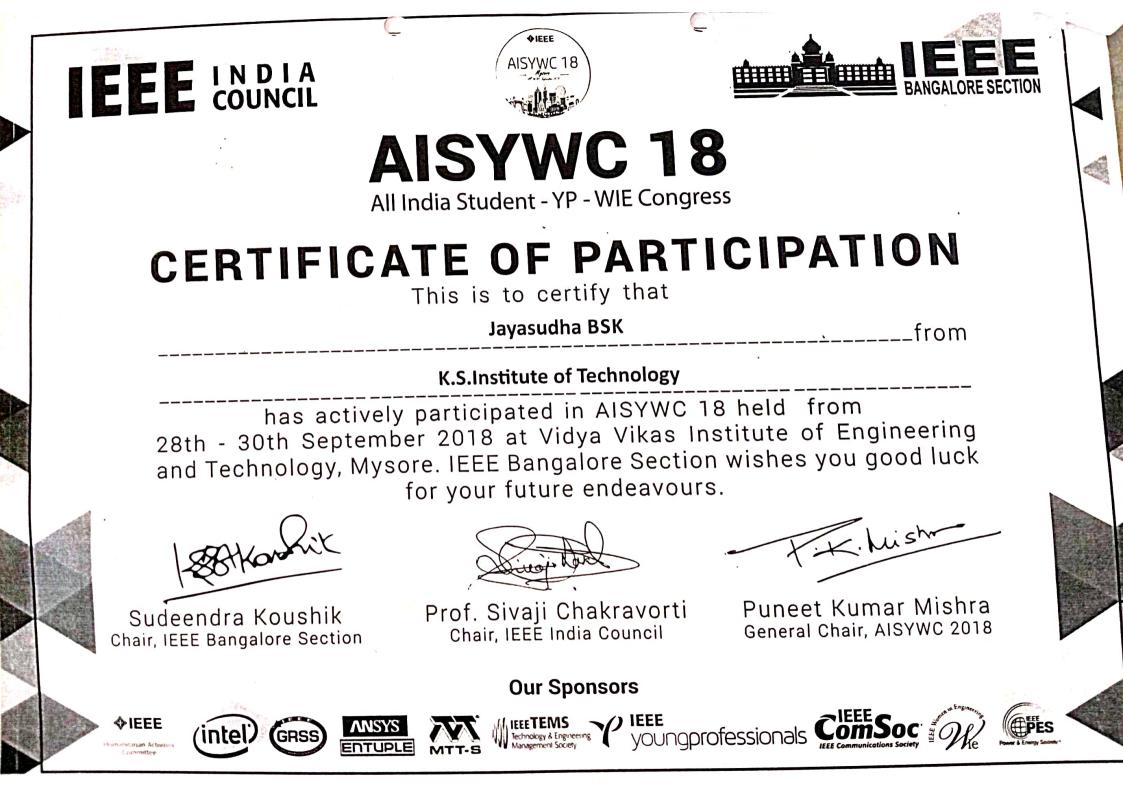# Certificate of Participation

This is to certify that

**Dr. P.N. SUDHA**

**PROFESSOR & HEAD, ECE**

**KSIT, BENGALURU**

participated in the Indian Technology Congress - 2018
during 05 - 06 September 2018
at NIMHANS Convention Centre, Bangalore.

**Dr. L.V. Muralikrishna Reddy**
Chairman - Organising Committee
Indian Technology Congress - 2018

**Prof. R.M. Vasagam**
Chairman - National Advisory Committee
Indian Technology Congress - 2018

# AISYWC 18

### All India Student - YP - WIE Congress

# CERTIFICATE OF PARTICIPATION

This is to certify that

**Jayasudha BSK**

_____from

**K.S.Institute of Technology**

_____

has actively participated in AISYWC 18 held from 28th - 30th September 2018 at Vidya Vikas Institute of Engineering and Technology, Mysore. IEEE Bangalore Section wishes you good luck for your future endeavours.

**Sudeendra Koushik**
Chair, IEEE Bangalore Section

**Prof. Sivaji Chakravorti**
Chair, IEEE India Council

**Puneet Kumar Mishra**
General Chair, AISYWC 2018

**Our Sponsors**

**Karnataka Science and Technology Academy (KSTA)**

Department of Science and Technology

Government of Karnataka

*Certificate*

**B Surekha**

This is to certify that Mr./Ms./Dr. ...........................................................................................

**Professor, KSIT, Bengaluru**

................................................................................ participated in the Workshop on
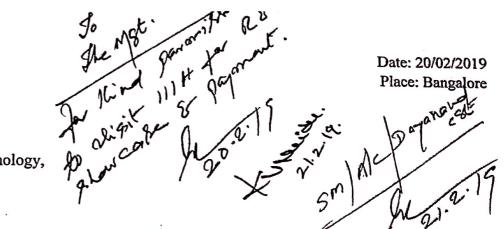
**"Project Management"** organised by KSTA, DST, GoK, Bengaluru during 25 -

26 April 2018.

**Dr. S. K. Shivakumar**
Chairman, KSTA/
Former Director, ISAC, ISRO

**Dr. H. Honne Gowda**
Special Director (Technical), DST/
Member Secretary, KSTA

To
The Mgt.
For kind perusal for R B
To elicit IIIH for R&D
To showcase & payment.
20.2.19
21.2.19
SM/Alc Dayananda
CSE
21.2.19

Date: 20/02/2019
Place: Bangalore

To
The Principal,
K.S. Institute of Technology,
Bangalore-560109

Respected Sir,

### Subject: Budget towards R&D Showcase 2019, at IIIT Hyderabad.

With reference to the above subject, we Dr. Dayananda R B, Professor, CSE Dept and Praveen. A, Asst.Professor, ECE Dept will be visiting IIIT Hyderabad for a R&D Show case 2019.The event is on 23rd and 24th February 2019.Kindly sanction the expenditure for the visit as mentioned below and oblige.

The approximate expenditure for the R&D Showcase 2019 is as follows:

| Sl.No. | Particulars | Amount in Rs. |
|--------|-------------|---------------|
| 1 | Bus Tickets ( To & Fro) | 7600 |
| 2 | Local Travel | 1000 |
| 3 | Room Rent | 5000 |
| 4 | Breakfast, Lunch & Dinner | 2000 |
| **Total** | | 15,600 |

Thanking you,

Yours truly,

(Dr.Dayananda R B)

Request the amount requested
may be permitted if norms
permit.

20|02/19
(Mr.Praveen A)

(P. Joy Prabhakaran)
20 Feb 2019

The above two faculty may kindly be deputed to participate and represent KSIT in the above event. For kind orders

21/2/19
CHIEF EXECUTIVE OFFICER
Member Secretary
Academic Advisory Board

# Report on R&D Showcase 2019
## 23 and 24 February 2019

We Dr. Dayananda R B, Professor, CSE Dept and Mr. Praveen A, Assistant Professor, ECE Dept visited **IIIT-Hyderabad's Annual R&D** showcase held on **23 and 24 February 2019.**

The purpose of the visit is to a) Get sense of the work being done at IIIT-H. b) See how the incubation center at IIIT-H works. c) Build connections with IIIT-H which can help our KSIT students to have internship with companies that are working on interesting problems at IIIT-H.

The two-day event gave general public to interact with faculty and students (UG/MS/Phd) to understand their work in more tangible forms through demos, prototypes and presentations. The number of Posters/Demos/Model were around 290.

Students Conveyed about project details very well and shared their contact details for any assistance. Most project ended with very good publications and funded from Private / Govt Sectors

There were around 3,000 visitors that included industry, academia and investors who attended the showcase.



In parallel to the showcase there were several interesting talks. These included a panel discussion with Prof. Vasudeva Varma, Dean (R&D), IIIT-H; Prof. Jayanthi Sivaswamy, Dean (academics), IIIT-H; Pankaj Vaish, MD (India), Cognitive Scale and Dr. Satya Prakash Dash, Director Global Innovations Impact Lab at PATH on "**The Role of Emerging Technology and Research in Medicine and Healthcare**".
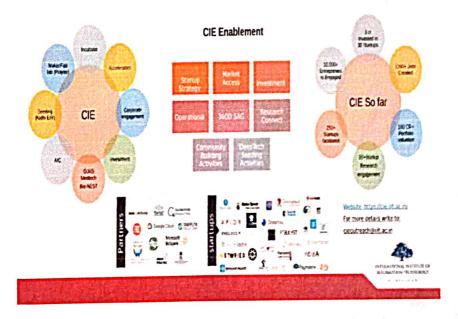
There was also a keynote talk by Prof. Arun Tangirala from Department of Chemical Engineering, IIT-Madras. IIIT-H professors Sujit Gujar and Kannan Srinathan spoke about **"Artificial intelligence and Block-chain"**.

On Sunday 24th Feb, Prof. Jayanthi Sivawamy and Dhananjaya Dendukuri, CEO and co-founder of Achira Labs shared their views on research trends and relevance to healthcare technologies.

For More Visit : **https://www.iiit.ac.in/randd/**

## Centre for Innovation and Entrepreneurship (CIE)
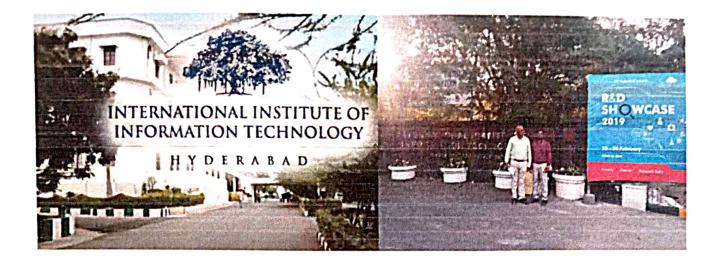
IIIT Hyderabad started supporting startups since 2008 with the vision of commercializing the cutting edge technologies. Department of science & technology, GoI recognized THE incubation facility as a TBI in 2012 following which the foundation opened itsdoors to the startups outside the institute as well



## About IIIT-Hyderabad

IIIT-Hyderabad Estd-1998, there are around 1800 Students and 80 Faculty members from various centers in the campus. There are 10 Research Centers and 10 Lab centers. Students are spending most of their time in Lab/Research Centers. Theory classes was conducted two hours per day. Most project Group had one Phd Professor, two MS Student or 1 Phd student & UG Students. Many 1st year students were involved in project work. All faculties in the center are Phd's.

INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY
H Y D E R A B A D

Submitted by

Praveen A
Assistant Professor, ECE
KSIT, Bengaluru

# NITTE | NMAM INSTITUTE OF TECHNOLOGY

EDUCATION TRUST

(An Autonomous institution affiliated to VTU, Belagavi)
Nitte - 574110, Karnataka, India
ISO 9001:2015 Certified, Accredited with 'A' grade by NAAC

SME 2019

## International Conference on

# Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering

## CERTIFICATE

This is to certify that

**Mr. M. Umashankar, VIT University Vellore**

has presented a paper entitled

Influence of reinforcement on Mechanical properties of modified ZA alloys

in this conference organized by the Department of Mechanical Engineering of
N. M. A. M. Institute of Technology, Nitte during 23rd-24th May, 2019.

Dr. Shashikantha Karinka
Program Chair, SME 2019
HOD, Mechanical

Dr. Kumar K.S & Dr. Ajit Hebbale
Co-Convener Organizing Secretary
SME 2019

Dr. Niranjan N. Chiplunkar
General Chair, SME 2019
Principal

# PROOF OF AMOUNT OF SAE FISTA REGISTRATION FEE

# Department of Mechanical Engineering

Two Day Faculty Development Programme on

## "IOT IN AUTOMOTIVE AND MANUFACTURING"

**PES UNIVERSITY**

*Certificate*

This is to certify that **Mr. Bharath Kumar K**

of **KSIT Bangalore** has participated in the

Two Day Faculty Development Programme on **"IOT In Automotive And Manufacturing"**

organised by the Department of Mechanical Engineering

on 31st August - 1st September 2018

S.V. Nanda Kumar
Coordinator

Babu Rao Ponangi
Coordinator

Dr. K. S. Sridhar
Chairperson - Mechanical Engineering

Dr. K N B Murthy
Vice-Chancellor, PES University

# Department of Mechanical Engineering

Two Day Faculty Development Programme on

## "IOT IN AUTOMOTIVE AND MANUFACTURING"

**PES UNIVERSITY**

### Certificate

This is to certify that _Mr. Ranganath N_

of _KSIT Bangalore_ has participated in the

Two Day Faculty Development Programme on **"IOT In Automotive And Manufacturing"**

organised by the Department of Mechanical Engineering

on 31st August - 1st September 2018

S.V. Nanda Kumar
Coordinator

Babu Rao Ponangi
Coordinator

Dr. K. S. Sridhar
Chairperson - Mechanical Engineering

Dr. K N B Murthy
Vice-Chancellor, PES University

# B. N. M. Institute of Technology

## Certificate

This is to certify that **Ms. Swetha B. N.** of

**KSIT, Bengaluru** has participated in

*Faculty Development Programme* on **IoT based Project Design and Development** organized by the Department of **Electronics and Communication Engineering**, B.N.M. Institute of Technology, Bengaluru from **24ᵗʰ to 29ᵗʰ** June, 2019.

Dr. P. A. Vijaya
HOD, ECE
BNMIT, Bengaluru

Dr. Krishnamurthy G. N.
Principal
BNMIT, Bengaluru

Prof. T. J. Rama Murthy
Director
BNMIT, Bengaluru

# 63rd CONGRESS OF
# INDIAN SOCIETY OF THEORETICAL
# AND APPLIED MECHANICS
## (ISTAM - 2018)

### DECEMBER 20 - 23, 2018

## Certificate

This is to certify that Mr/Ms/Dr/Prof. _VENKATARAMANA B S_

has participated / presented a paper at the 63rd CONGRESS OF THE INDIAN SOCIETY OF

THEORETICAL AND APPLIED MECHANICS (ISTAM - 2018) during December 20 -23, 2018

organized by the School of Engineering, Dayananda Sagar University, Bangalore, India.

**Prof. Damodar Maity**
Secretary
ISTAM - 2018

**Dr. Chandra Vaidyanathan**
Organizing Secretary
ISTAM - 2018

# Visvesvaraya Technological University

"JNANA SANGAMA", BELAGAVI – 590 018.

## ATTENDANCE CERTIFICATE

This is certify that Prof. ...Jalaja P.............................................

working in the Department of ...Mathematics...............................at

...K.S.I.T., Bengalore............has attended the Two Days

workshop on Deliberation of $3^{rd} - 8^{th}$ semester 2018 scheme, syllabus at Visvesvaraya

Technological University, Belagavi from 02.05.2019 to 03.05.2019 (2days).

Regional Director
Regional Office, VTU,
Belagavi.