

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

"The Challenges and Opportunities for Women in Science, Technology, Engineering & Mathematics (STEM)

Brochure:

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Approved by AICTE, Affiliated to VTU & Accredited by NAAC)

15, Mallasandra, off Kanakapura Road, Bangalore - 560109 www.kssem.edu.in



FIVE DAY FACULTY
DEVELOPMENT PROGRAMME

ON

THE "CHALLENGES AND
OPPURTUNITIES FOR WOMEN IN
SCIENCE, TECHNOLOGY,
ENGINEERING & MATHEMATICS"
(STEM)

"HYBRID MODE"

OCTOBER 17TH TO 21ST - 2022 Organized by

DEPARTMENT OF CIVIL ENGINEERING

ABOUT THE INSTITUTION

The Kammavari Sangham, a multi-activity non-profit oriented voluntary service organization, was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago. With firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousand, the Sangham went about establishing educational institutions, starting with K.S. Polytechnic in 1992. Enthused with this success of its foray into technical education, the Sangham then started the K.S. Institute of Technology (KSIT), its first Engineering College in the year 1999. Following the success of KSIT, the Sangham ventured onwards to start yet another technical

ventured onwards to start yet another technical institution, oriented towards advanced studies and research, and thus, the K.S. Group of Institutions (KSGI) was born in 2010. KSGI was renamed as K.S. School of Engineering & Management in 2011. K.S. School of Architecture was established in the year 2015 and followed by K.S.P. U. College in the year 2022.

ABOUT THE DEPARTMENT

Department of Civil Engineering is established in the year 2010 and offers four year undergraduate course leading to Bachelor's degree in Civil engineering affiliated to Visveswaraya Technological University. Belgaum. Department of Civil Engineering also offers Masters in Structural Engineering program since 2013. Research centre has been established in the year 2016-17 with more than 10 research scholars. The Department aims at producing eminent Civil Engineers for the Nation and also across the Globe. The Department has eminent faculty with wide range of experience in consultancy, research, teaching, training and field experience which will help the

AIM OF THE FDP

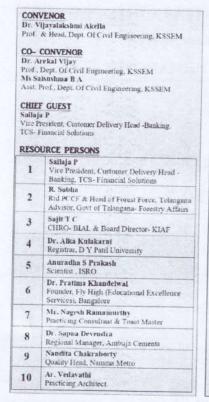
- To throw light on the challenges faced by women in STEM and sensitize on the opportunities available for them.
- The speakers will share their experience with the audience on how to overcome the psychological and physiological barriers.
- This conference also aims at changing the mind-set of the policy makers, employers, colleagues, students and society at large.
- Gender equality will bring new perspective to the industry and provide better future for Indian women in STEM.

PATRONS

- Sri. R Rajagopal Naidu President Kammavari Sangham
- Sri R Leela Shankar Rao Secretary Kammavari Sangham
- Sri T Neerajakshulu Naidu Treasurer Kammayari Sangham

ADVISORY COMMITTEE

- · Dr. H P Khincha
- Chairman, Academic Advisory Board, KSGI
- Dr. K V A Balaji CEO, KSGI
- Dr. K N Balasubramanya Murthy Member, KSGI
- Dr. K Rama Narasimha Principal, KSSEM
- Prof. B K Raghu Prasad Formerly Prof IISC, Bangalore



ELIGIBILITY

Faculty members and students of engineering colleges recognized by AICTE, Engineers and Architects are eligible to attend the seminar. We look forward for participation of MEN in our discussions, around gender equity in the work place & make organizational diversity efforts more successful.

Confirmation of eligible candidates will be on a first come first serve basis, upto a maximum of 80 candidates.

ORGANIZING COMMITTEE

- 1. Mr. Veerendra Kumar M. Associate Prof.
- 2. Dr. Rashmi H R. Associate Professor
- 3. Mr. Naveena M P. Assistant Professor
- 4. Ms Sushma M. Assistant Professor
- 5. Ms Amrutha D. Assistant Professor
- Mr. Manjunath B. Assistant Professor
 Mr. Prashanth M. Assistant Professor
- 8. Mr. Shashi Prasad N, Assistant Professor

FOR FURTHER CONTACT DETAILS

Ms Saisushma B A (+91- 9880683009) Assistant Professor, KSSEM.

Mr. Shashi Prasad N (+91- 9632081005) Assistant Professor, KSSEM.

NO REGISTRATION FEE!

Complete the registration using the Google form

https://forms.gle/Cty4KmYyCNe53NnM6

OR

SCAN QR CODE TO REGISTER



On or before 14th October 2022

"HYBRID MODE"

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT



(Approved by AICTE, Affiliated to VTU &

Accredited by NAAC)
15, Mallasandra, off Kanakapura Roud,

Bangalore - 560109 www.kssem.edu.in

Organized by

DEPARTMENT OF CIVIL ENGINEERING

Report

Faculty Development Program (FDP) Report

Title: The Challenges and Opportunițies for Women in Science, Technology, Engineering & Mathematics (STEM)

Date: 17th October 2022 to 21st October 2022, K. S. School of Engineering and Management, Bangalore.

Participants:

1) Dr. Jalaja P

2) Mrs. Shylaja K R

3) Mrs. Lakshmi C

Summary:

The topic of "Challenges and Opportunities for Women in Science, Technology, Engineering, and Mathematics (STEM)" in a Faculty Development Program (FDP) is crucial in addressing gender disparities and fostering diversity in these fields.

This FDP delves into the multifaceted landscape of STEM, examining the unique hurdles women face and the promising avenues available to enhance their participation and success. It begins by acknowledging the historical underrepresentation of women in STEM and the persistent barriers such as gender bias, stereotype threat, and lack of mentorship and support

networks. These challenges often lead to lower retention rates, limited career advancement opportunities, and decreased confidence among women in STEM disciplines.

Overall, this FDP aims to empower educators and stakeholders to create a more inclusive and equitable STEM community, where women can thrive and contribute their talents and perspectives to address the complex challenges of the future. Through collaborative efforts and a commitment to diversity and inclusion, we can build a stronger and more resilient STEM workforce that reflects the rich diversity of society.

Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "The Challenges and Opportunities for Women in Science, Technology, Engineering & Mathematics (STEM)" is to Increase awareness among faculty members about the unique challenges faced by women in STEM fields, including gender bias, stereotype threat, and unequal access to resources and opportunities. Also, explore the underlying factors contributing to the underrepresentation of women in STEM disciplines, including societal norms, institutional practices, and individual biases.

Submitted by



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi) #15, Mallasandra off. Kanakapura Road, Bengaluru-560 109

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that **Dr JALAJA P** From K S INSTITUTE OF TECHNOLOGY, BENGALURU has participated in the Five day Faculty Development Programme on "THE CHALLENGES AND OPPORTUNITIES FOR WOMEN IN SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM)" conducted by K. S. School of Engineering and Management from 17th to 21st October 2022 in hybrid

urelle

Or. Vijayalakshmi Akella HOD, Dept. of Civil Engg K.S.S.E.M

DUNCTION OF TECHNICO

Dr. K Rama Narasimha Principal / Director K.S.S.E.M

Dr. Jalaja P



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi) #15, Mallasandra off. Kanakapura Road, Bengaluru-560 109

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that SHYLAJA K R from K S I T has participated in the Five day Faculty Development Programme on "THE CHALLENGES AND OPPORTUNITIES FOR WOMEN IN SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM)" conducted by K. S. School of Engineering and Management from 17th to 21st October 2022 in hybrid mode.

Dr.Vijayalakshmi Akella

Or.Vijayalakshmi Akella HOD, Dept. of Civil Engg K.S.S.E.M Dr. K Rama Narasimha Principal / Director K.S.S.E.M

Made for free with Certify'em

Mrs. Shylaja K. R



K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi) #15, Mallasandra off. Kanakapura Road, Bengaluru-560 109

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that LAKSHMI C from KS INSTITUTE OF TECHNOLOGY,
BENGALURU has participated in the Five day Faculty Development Programme on
"THE CHALLENGES AND OPPORTUNITIES FOR WOMEN IN SCIENCE,
TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM)" conducted by K. S.
School of Engineering and Management from 17th to 21st October 2022 in hybrid

welle mode.

Dr.Vijayalakshmi Akella HOD, Dept. of Civil Engg K.S.S.E.M Dr. K Rama Narasimha Principal / Director

Made for free with Certify'em

Mrs. Laksmi C

SIGNATURE OF HOD
Head of the Department
Dept. of Science and Humanities

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY



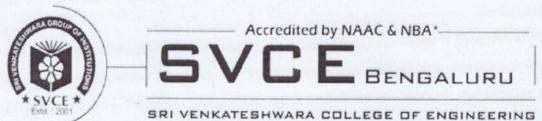
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

"Taking Research to Next Level"

Brochure:



— Affiliated to VTU, Approved by AICTE, Recognised by UGC u/s 2(f) & 12(B)—

Free FDP on Taking Research to the Next level



Organizer: Department of Mechanical Engineering and Department of Basic Science, Sri Venkateshwara College of Engineering

About the FDP

- · When: 26th to 30th September 2022
- · Free Registration
- · E- certificates will be provided for all the participants

Every day 1 session (2.30 to 4.00 PM) will be delivered. The key topics covered are Overview of IPR, Planning Research, Funding agencies for Research, Article and Proposal writing.

Report

Faculty Development Program (FDP) Report

Title: Taking Research to Next Level'

Date: 17th October 2022 to 21st October 2022, SVCE Bangalore.

Participants:

1) Dr. Venkataramana B. S

Summary:

The topic "Taking Research to the Next Level" in a Faculty Development Program (FDP) embodies the aspiration to enhance the quality, impact, and relevance of academic research across disciplines.

This FDP is designed to empower faculty members to elevate their research endeavors to new heights of excellence and significance. It addresses the evolving landscape of academic research, recognizing the need for scholars to adapt to changing methodologies, technologies, and societal demands.

Moreover, the FDP emphasizes the importance of ethical research practices, integrity, and transparency in all stages of the research process. It encourages participants to critically evaluate the societal implications of their research and to actively engage with stakeholders to ensure that their work addresses real-world problems and contributes to positive social change.

Objectives of the FDP

To equip faculty members with advanced research methodologies, interdisciplinary collaboration skills, and innovative approaches necessary to elevate the quality, impact, and relevance of their research projects, thereby advancing knowledge within their fields and contributing to positive societal change.

Submitted by



Dr. Venkatarana B. S

SIGNATURE OF HOD
Head of the Department
Pept. of Science and Humanities
S. Institute of Technology
Rengaluru - 560 109

SIGNATURE OF PRINCIPAL

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



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

"Polymer Composites for Engineering Applications" (PCEA – 2023)

Brochure:



BMS COLLEGE OF ENGINEERING

DEPARTMENT OF CHEMISTRY

Cordially invites you to the inauguration of

One week Faculty Development Program

on

"POLYMER COMPOSITES FOR ENGINEERING APPLICATIONS" (PCEA – 2023)

From 22** - 26** MAY 2023

Chief Guest

PROF. PRAVEEN C RAMAMURTHY

Professor, Department of Materials Engineering, IISc, Bengaluru

Presided by
DR S MURALIDHARA
PRINCIPAL, BMSCE

DR SURESH R REDDY VICE PRINCIPAL (ACADEMIC), BMSCE

DR BHEEMSHA A
VICE PRINCIPAL (ADMIN), BMSCE

DATE: 22nd May 2023 at 10:30 AM

VENUE:
Auditorium 2. Platnum Jubilee Block,
BMSCE, Bull temple road, Bengaluru - 19

	Faculty Development Program on "Polymer Composites for Engineering Applications" (PCEA-Z023) 22-26 May 2023 (Blended mode) SCHEDULE		
22-05-2023 MONDAY (OFFLINE) VENUE: Auditorium-2, Platinum Jubilee Block, BMSCE	Time	Program	
	9:00 AM - 10:00 AM	Registration	
	10:30 AM - 11:00 AM 11:00 AM - 12:30 PM	Inauguration Key note address Dr. Praveen C Ramamurthy Professor, Dept. of Materials Engineering, Indian Institute of Science, Bengaluru.	
	12:30 PM - 2:00 PM	Lunch Break	
	2:00 PM - 3:15 PM	Dr. Prashantha Kalappa Professor – ACU Research and Innovation Centre Dean - School of Natural Sciences Adichunchanagir University, Mandya District, Karnataka.	
	3:15 PM - 4:30 PM	Dr. Nataraj S K Professor, CNMS, Jain University, Bengaluru	
	4:30 PM - 4:45 PM	High Tea	
		DAY 2	
23-05-2023 TUESDAY (ONLINE)	10.30 AM - 11:45 AM	Dr. Mahesh Padaki, Associate Professor, CNMS, Jain University, Bengaluru	
	11:45 AM - 12:00 PM	Break	
	12:00 PM - 01:15 PM	Dr. Anil Chandra Assistant Professor, Department of Mechanical Engineering, BMSCE	
	01:15 PM - 02:00 PM	Lunch Break	
	02:00 PM - 03:15 PM	Dr. Sanjeev P Maradur Associate Professor, Materials Science Division, PPISR, Bengaluru	
		DAY 3	
24-05-2023 WEDNESDAY (ONLINE)	12:00 PM - 01:15 PM	Dr. Revansiddappa M Professor, PES University, Electronic City Campus, Bengaluru	
	01:15 PM - 02:00 PM	Lunch Break	
	02:00 PM - 03:15 PM	Dr. Anantharaman Dhanabalan Chief Scientist, SABIC Research & Description (Sample Port Limited, Bengaluru	
	03:15 PM - 4:00 PM	Break	

	4:00 PM - 5:15 PM	Dr. Suryasarthi Bose, Professor, Indian Institute of Science, Bengaluru
		DAY4
25-05-2023 THURSDAY (ONLINE)	10.30 AM - 11:45 AM	Dr. Padmavathy Nagarajan Solution Scientist at Merck Life Science, Bengaluru
	11:45 AM - 12:00 PM	Break
	12:00 PM - 01:15 PM	Or. Shivanand Senior Lead Scientist at ITC Limited, Bengaluru
	01:15 PM - 02:00 PM	Lunch Break
	02:00 PM - 03:15 PM	Dr. Lakshmi Vellanki Assistant Professor, NITK Surathkal
		DAY 5
26-05-2023 FRIDAY (OFFLINE) VENUE: Seminar Hall, 4 th Floor, Platinum Jubilee Block, BMSCE	10:00 AM - 11:15 AM	Dr. Natarajan Professor, RVCE, Bengaluru
	11:15 AM - 12:00 PM	Valedictory Chief Guest - Dr. Natarajan Professor, RVCE, Bengaluru
	12:00 PM - 12:30 PM	High Tea

Note: Zoom link for online sessions will be shared you through WhatsApp group.

Report

Faculty Development Program (FDP) Report

Title: Polymer Composites for Engineering Applications - (PCEA - 2023)

Date: 22nd – 26th May 2023, BMS College of Engineering, Bangalore.

Participants:

1) Dr. Kiran Kumar S R

2) Mrs. Radhika N

Summary:

The topic of "Polymer Composites for Engineering Applications" in an FDP (Faculty Development Program) suggests a focus on exploring the utilization of polymer composites in various engineering fields. Polymer composites are materials composed of two or more distinct constituents that, when combined, produce a material with enhanced properties compared to the individual components alone.

In this context, the FDP likely aims to cover several aspects:

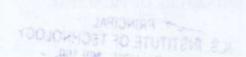
- Understanding the unique properties of polymer composites, including their mechanical, thermal, electrical, and chemical properties. This would involve discussing how the combination of polymers with reinforcing materials such as fibers or particles can result in composites with tailored characteristics.
- Exploring different manufacturing techniques for producing polymer composites, including methods such as injection molding, compression molding, filament winding, and resin transfer molding. Participants may learn about the advantages and limitations of each process and their suitability for different applications.
- Examining the diverse range of engineering applications where polymer composites are used, including aerospace, automotive, construction, marine, and sports equipment. Participants may gain insights into the specific requirements and challenges of each application area and how polymer composites address them.
- Discussing approaches to design and optimize polymer composite structures for specific engineering applications. This could involve topics such as material selection, geometric optimization, and performance prediction through modelling and simulation.
- Considering the long-term performance and environmental impact of polymer composites. This may involve discussions on durability, degradation mechanisms, recycling, and the development of sustainable composite materials.

Overall, the FDP on "Polymer Composites for Engineering Applications" aims to equip participants with knowledge and skills to effectively utilize polymer composites in engineering practice, fostering innovation and advancements in various industries.

Objectives of the FDP

The objective of the Faculty Development Program (FDP) on "Polymer Composites for Engineering Applications" is to provide participants with comprehensive knowledge, skills, and resources to effectively understand, utilize, and innovate with polymer composites in diverse engineering contexts.

Overall, the FDP aims to empower participants with the necessary expertise and resources to harness the potential of polymer composites for addressing contemporary engineering challenges and driving innovation in various industries.



Submitted by



B.M.S. College of Engineering

(An Autonomous Institution Affiliated to VTU with NBA & NAAC A++ Accreditation)

One-week Faculty Development Program on "Polymer Composites For Engineering Applications" (PCEA-2023)

Certificate of Participation

This is to certify that Mr./Mrs./Dr. Kiran Kumar S. R, from Bangalore has participated in One-week Faculty Development Program on "Polymer Composites For Engineering Applications (PCEA-2023)" (blended-mode) held from 22nd to 26th May 2023, conducted by the Department of Chemistry, B.M.S. College of Engineering, Bengaluru-560019.

Dr. M.S. Dharmaprakash Organizing Chair & Head, Dept. of Chemistry, BMSCE Dr. S Muralidhara Principal, BMSCE

Dr. Kiran Kumar S.R



B.M.S. College of Engineering

(An Autonomous Institution Attiliated to VTU with NBA & NAAC A++ Accreditation)

One-week Faculty Development Program on
"Polymer Composites For Engineering Applications"
(PCEA-2023)

Certificate of Participation

This is to certify that Mr./Mrs./Dr. Neelam Patil Radhika from Bangalore has participated in One-week Faculty Development Program on "Polymer Composites For Engineering Applications (PCEA-2023)" (blended-mode) held from 22nd to 26th May 2023, conducted by the Department of Chemistry, B.M.S. College of Engineering, Bengaluru-560019.

Dr. M.S. Dharmaprakash Organizing Chair & Head, Dept. of Chemistry, BMSCE Dr. S Muralidhara Principal BMSCE

Mrs. Neelam Patil Radhika

SIGNATURE OF HOD
Head of the Department
Dept. of Science and Humanities

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY



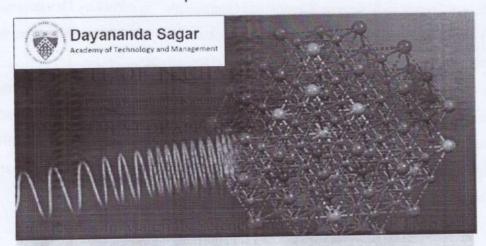
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

"Recent Trends in Materials Science and Engineering (RTMSE-2022)"

Brochure:



An IQAC initiative

· One week online

Faculty Development Program on

Recent Trends in Materials Science and Engineering

(RTMSE-2022)

12-16 September 2022

Organized by

Department of Chemistry

Dayananda Sagar Academy Technology & Management

Bangalore - 560082

Report

Faculty Development Program (FDP) Report

Title: Recent Trends in Materials Science and Engineering (RTMSE-2022)

Date: 12th September 2022 to 16th September 2022, Dayananda Sagar Academy Technology &

Management, Bangalore.

Participants:

1) Dr. Renuka C

Summary:

The topic of "Recent Trends in Materials Science and Engineering" in a Faculty Development Program (FDP) offers an invaluable opportunity for educators and researchers to explore the latest advancements and emerging technologies in this dynamic field.

The Faculty Development Program on "Recent Trends in Materials Science and Engineering" aims to provide participants with a comprehensive understanding of the latest developments, innovations, and research trends shaping the discipline. Materials science and engineering play a pivotal role in driving technological progress across various sectors, from electronics and energy to healthcare and infrastructure.

Objectives of the FDP

The objective of the Faculty Development Program on "Recent Trends in Materials Science and Engineering" is to provide faculty members with a comprehensive understanding of the latest advancements, methodologies, and applications in the field, enabling them to incorporate cutting-edge knowledge into their teaching, research, and professional practice.

Submitted by



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT



Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore: 560082
(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi) (All the Branches Accredited by NBA, New Delhi)
(NAAC Accredited with A+ Grade)

Department of Chemistry CERTIFICATE OF PARTICIPATION

This is to certify that, Dr. Renuka C

from K.S. Institute of Technology, Bangalore

attended the One-Week Online Faculty Development Programme on "Recent Trends in Materials Science and Engineering (RTMSE-2022)" organized by the Department of Chemistry, Dayananda Sagar Academy Technology & Management, Bangalore from 12th September to 16th September 2022.

Convenor (Dr. Nandini A. Pattanashetti) HOD, Chemistry (Dr. Shivakumar 8.S.)

Principal, DSATM (Dr. M. Ravishankar)

Dr. Renuka C

SIGNATURE OF HOD

Hend of the Department
Dept. of Science and Humanities
K.S. Institute of Technology
Repnature - 560 109

SIGNATURE OF PRINCIPAL

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



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FDP REPORT

ON

Artificial intelligence and data Science in image Analysis

Venue: CMRIT

Date: 13/02/2023 to 17/02/2023

Dr. Vaneeta M, Professor, Department of AIML, KSIT attended a FDP on Artificial intelligence and data Sciene in image Analysis Organized by Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 13/02/2023 to 17/02/2023.

Established in 2000, the CMR Institute of Technology injuries of a 2000, the CMR Institute of Technology imparts quality, pragrantic education in engineering and management to help students hone their analytical abilities and develop their creative thinking skills. CMRIT meets the rapidly growing need for technology professionals by nurturing young minds in an innovative and progressive learning environment. Situated in the very heart of South India's IT corridor, the CMRIT compus in Whitefield, Bengalum is centrally located, well connected and easily accessible.

At CMRIT, we are dedicated to holding aloft the flame of Sri Chikka Muniyappa Reddy's dreams. Towards this end, we are committed to promoting Towards this cend, we are committed to personsoing technical education as a catalyst to the growth and development of the country and society at large. With worlds-laws infrastructure and experienced faculty, CMR Institute of Technology is the preferred destination for technocrats and managers who wish to shape the future

lingmeering was started in the academic year 2000-2001. The Department offers an undergraduate programme in the field of Electronics and Communication Engineering for which the student intake is currently 240 and postgraduate program MTech in VLSI design and embedded systems for which the student intake is currently 24. The Department of Electronics and Communication Engineering is approved by the All India Council for Technical Education (ACTL), and is permanentify Technical Education (AKTE), and is permanently affiliated to Visvesvaraya Technological University (VTU), Belgaum in Karnataka, The National Board of Accreditation, New Delhi accredits the Department. The Department has established a Research Centre under VTU to facilitate research activities for both faculty and students. Students may also opt to pursue an M.S. through the research programm

ORGANIZING COMMITTEE:

PALRONS

un CMBGI

Provident, CMR.FT.

Shri, K.R. Jayasleep CEO, CMRGI

ADVISORY COMMITTEE:

Principal, CMBIT

Vice-Principal, CMRII

CONVENER

IL HOD-ECT: CMIET

Programme Coordinator

Dr. Kavitha.D., Assistant Prof. ECE Dept, CMRIT Bangalore

RESOURCE PERSONS

- 1. Dr. B. Satyanarayana, Ph. D. Scientific Officer (H). Tata Institute of Fundamental Research, Morobui. 2. Dr.Kiruba, Data Scientist, Elpis IT solutions PVT
- 3. Mr. Gusrav Adke, Data Scientist, Michelin Tyres.
- Pure.
 4. Dr. G. Kavetia, Madras Institute of Technology
- (MIT Campus), Chentai. 5. Dr.S.Geetha, Professor, VIT, Chentai 6. Dr.Sudhakar M.S. VIT, Vellore
- Dr.Lavanya, SRM Institute of Technology,
- 8. Dr. Pallavi adke, PCCOER, Pune

5 DAYS online FACULTY DEVELOPMENT PROGRAM (FDP) ON

"Artificial Intelligence and Data Science in Image Analysis"

For Faculty, Research Scholars & Industry person

13/02/2023 to 17/02/2023



Organized by

Department of Electronics and Comm Engineering,

CMR Institute of Technology, Bengaluru-560037



About FDP

Artificial intelligence revolutionizes image analysis by employing advanced algorithms to extract meaningful insights from visual data, enhancing accuracy and efficiency." "Data science techniques in image analysis leverage statistical models and machine learning to uncover patterns, trends, and anomalies within images, driving innovation across various fields." This FDP allows robust collaboration between AI researchers and health practitioners to on socio-technological challenges and come up with state-of-the-art technology directions in the interdisciplinary field of engineering and medicine.

During this FDP participant will understand

- Fundamentals, applications, recent trends & challenges in Image Processing & Computer Vision.
- > Fundamentals of AI and Data Science.
- > Data science and its applications.
- > Image Enhancement using Deep Learning Techniques.

SUBMITTED BY: Dr. Vanceta M May

CMRIT

CHE HENTINE OF TECHNOLOGY STREAMSHIP

CMR Institute of Technology

TPL Main Road, Kundalahalli,

#132, AECS Layout, ITPL Main Road, Kundalahalli, Bengaluru - 560037

Certificate of Participation

This is to certify that

Dr. Vaneeta M

has attended the 5 DAYS online FACULTY DEVELOPMENT PROGRAM (FDP) on "Artificial Intelligence and Data Science in Image Analysis"

Conducted by Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 13th February to 17th February 2023

Demille

R. E lundai

2--27

Coordinator

HoD, Dept. Of ECE

Principal

CMR Institute of Technology, Bengaluru

SIGNATURE OF HOD

Head of the Department
Artificial Intelligence & Machine Learning
K.S. Institute of Technology
Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - BEN 1094



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FDP REPORT

ON

Embedded System Design using ARM

NPTEL

Date: 01/02/2022 to 01/10/2022

Mrs. Sahana Sharma, Assistant Professor, Department of AIML, KSIT completed NPTEL online certification FDP course on **Embedded System Design using ARM** from 1-02-2022 to 1-10-2022 (16 weeks).



ABOUT THE COURSE

It includes basic concepts of embedded system design, with particular emphasis on hands-on and demonstration sessions on system design using ARM microcontrollers. Keeping in view of the recent developments, this course will be based on state-of-the-art microcontroller boards and programming environments. This course will also help the participants to understand the developmental aspects of Internet of Things (IoT) based designs. Starting from the basics, the participants will be introduced to various interfacing issues with sensors and actuators.

With hands-on sessions on:

Temperature sensing unit, Light sensing unit, Sound sensing unit.

- > Feedback control system, relay control unit, driving electrical appliances like motors, bulb, pump, etc.
- > Object tracking using GPS and GSM.
- > Introduction to Internet of Things, smart home concepts, motion sensing using accelerometer, control of appliances over SMS.

SUBMITTED BY: Sahana Sharma





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
IT Kharagour



Indian Institute of Technology Kharagpur

SWAYANI

THE DAUNE IDUCATION

SWAYANI

Differ atox, some activ

SIGNATURE OF HOD

Head of the Department
Artificial Intelligence & Machine Learnino

X.S. Institute of Technology
Bengaluru - 560 409

SIGNATURE OF PRINCIPAL

PHINCIPAL

K.S. PICTITUTE OF RECTIFOLIST

EENCALURU - 589 116.



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FDP REPORT

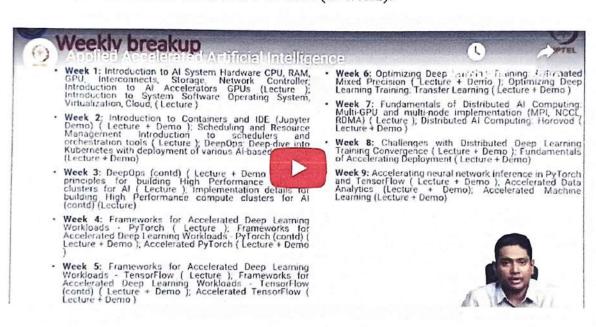
ON

APPLIED ACCELERATED ARTIFICIAL INTELLIGENCE

NPTEL

Date: 01/02/2022 to 01/09/2022

Ms. Amulyashree S, Assistant Professor, Department of AIML, KSIT completed NPTEL online certification FDP course on APPLIED ACCELERATED ARTIFICIAL INTELLIGENCE from 1-02-2022 to 1-09-2022 (12 weeks).



ABOUT THE COURSE

This course will cover the fundamentals of the compute capabilities and the system software required for implementing artificial intelligence (AI) based solutions with accelerated computing on industrial use cases such as the one in the domains of Smart City. The course will discuss end to end deployments of industrial use cases like using large language models with demonstration, and hence will help participants use state-of-the-art AI SDKs effectively to solve complex problems.

During this FDP participant will understand

- > Practical application of AI techniques with a specific emphasis on acceleration methods.
- > This could involve leveraging hardware accelerators like GPUs or TPUs, or optimizing algorithms for faster computation.
- > Gain insights into deploying AI models efficiently in real-world scenarios where speed and performance are crucial.

SUBMITTED BY: Ms. Amulyashree S





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

toll No: NPTEL22CS83S44751061



(Jul-Oct 2022)

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

Duration of NPTEL course: 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.

his certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24" July 2018, similar to other refresher / orientation courses

F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

SIGNATURE OF HOD

Head of the Department

Artificial Intelligence & Machine Learning

K.S. Institute of Technology

Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 500 106.



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FDP REPORT

ON

Advanced Tools and Techniques for best research

Venue: RVITM Date: 26-09-2022 to 30-09-2022

Mrs. Anu Mathews, Assistant Professor, Department of AIML, KSIT attended a FDP on Advanced Tools and Techniques for best research Organized by Department of Information Science and engineering and IPR cell at R V Institute of Technology and Management, Bengaluru from 26-09-2022 to 30-09-2022.

Objective of the Program:

The FDP focuses on imparting essential research skills and ethical practices to faculty members and research scholars through expert-led sessions and practical exposure. It aims to equip participants with up-to-date knowledge on diverse research dimensions, enhancing their ability to conduct independent research, formulate successful projects, and effectively communicate their findings in national and international forums.

During this FDP participant will understand

Through lectures and hands-on exercises, participants will gain insights into key aspects such as research topic selection, literature review, project planning, proposal writing, and crafting research papers.

The program emphasizes methodical learning to ensure comprehensive understanding and skill development among participants.

SUBMITTED BY: Mrs. Anu Mathews





RV Institute of Technology and Management®

Department of Information Science & Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that

Mrs.ANU MATHEWS

OF K.S INSTITUTE OF TECHNOLOGY

has participated in 5 DAY FACULTY DEVELOPMENT PROGRAMME (Online) on "ADVANCED TOOLS AND TECHNIQUES FOR BEST RESEARCH" jointly organized by the Department of Information Science & Engineering and IPR-Cell during 26th September, 2022 at RV Institute of Technology and Management, Bengaluru.

Dr. Latha CA 'loD, Dept of ISE

Dr. Jayapal R Principal, RVITM

SIGNATURE OF HOD

Head of the Department Artificial Intelligence & Machine Learning K.S. Institute of Technology Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

PHIMICIEAL

K.3. INSTITUTE OF TECHNOLOGY - BENCALUAN - BOUNGE -



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

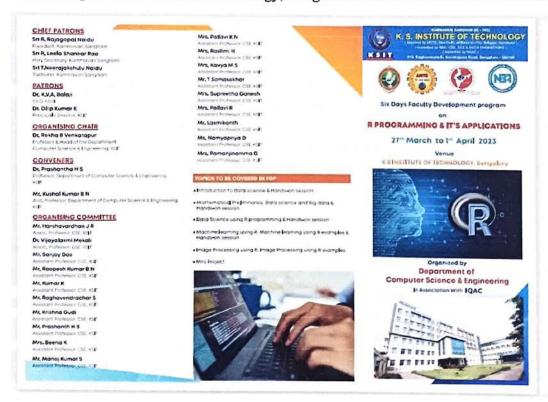
FDP REPORT

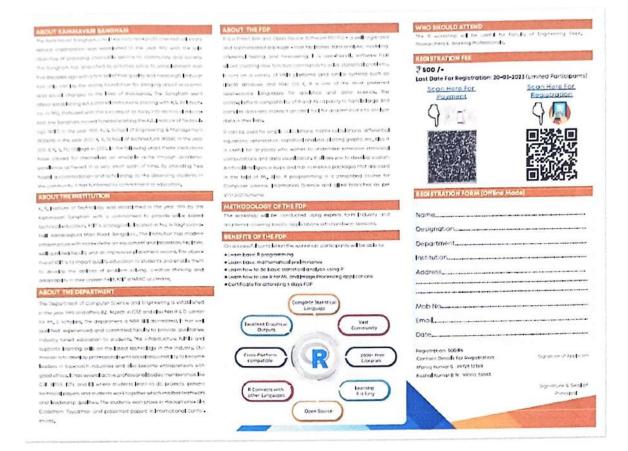
ON

R Programming and its Applications

Venue: KSIT Date: 27-03-2023 to 01-04-2023

Mrs. Lakshmi K K, Assistant Professor, Department of AIML, KSIT attended a FDP on R programming and its Applications Organized by Department of Computer Science and engineering at K S Institute of Technology, Bengaluru from 27-03-2023 to 01-04-2023.





About FDP

The FDP on R Programming offers participants a comprehensive understanding of R, a powerful programming language widely used in data analysis, statistics, and visualization. Through expert-led sessions and hands-on exercises, participants will gain proficiency in R programming fundamentals, data manipulation, statistical analysis, and data visualization techniques. The FDP aims to equip participants with practical skills to analyze data, interpret results, and communicate findings effectively.

During this FDP participant will understand

Participants will be proficient in utilizing R for various research and analytical tasks, empowering them to apply their knowledge in academic research, industry projects, and beyond.

SUBMITTED BY: Mrs. Lakshmi K K



K.S. INSTITUTE OF TECHNOLOGY

(APPROVED BY AICTE, NEW DELH); AFFILIATED TO VIU, BELAGAVI, KARMATAKA)

(ACCREDITED BY MBA : CSE, ECE & MICH ENGINEERING)

(ACCREDITED BY MAAC)

#14, RAGHUVANAHALLI, KANAKAPURA ROAD, BENGALURU - 560109

Certificate of Participation

This is to certify that

Ms. Lakshmi K K Assistant Professor, K.S. Institute of Technology

has participated for the 6-Days Faculty Development Program on
"R PROGRAMMING AND IT'S APPLICATIONS"
organized by Department of COMPUTER SCIENCE & ENGINEERING
in association with IQAC
from 27" March to 1" April 2023

Dr. Prasantha H S CONVENER Prof., Dept of CSE Twcatapu Dr. Rekha B Venkatapur Professor & Head, CSE Dept Dr. Dilip Kumar K.
Principal / Director, KSIT

SIGNATURE OF HOD

Head of the Department
Artificial Intelligence & Machine Learning
K.S. Institute of Technology
Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

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



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FDP REPORT

ON

Human Values Education: Why? and How?

Venue: KSIT Date: 15-05-2023 to 19-05-2023

Ms. Roopa K Murthy, Assistant Professor, Department of AIML, KSIT attended a FDP on Human Values Education: Why? and How? Organized by Department of Management Studies and Research Centre at K S School of Engineering and Management, Bengaluru from 15-05-2023 to 19-05-2023.



About FDP

The FDP on Human Values Education: Why? and How? delves into the significance and methodologies of integrating human values into education. Led by subject matter experts, the program aims to facilitate discussions and knowledge sharing on the rationale behind incorporating human values in education and practical strategies for implementation.

During this FDP participant will understand

Participants will explore the importance of fostering values such as empathy, integrity, and social responsibility in educational settings, and learn effective approaches for integrating these values into curricula and teaching practices.

Through interactive sessions and case studies, participants will gain insights into the transformative impact of human values education on learners and society as a whole, equipping them with the tools to promote holistic development and ethical behavior among students.

SUBMITTED BY: Ms. Roopa K



SIGNATURE OF HOD

Head of the Department
Artificial Intelligence & Machine Learning
K.S. Institute of Technology
Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT ON INTELLECTUAL PROPERTY RIGHTS

Venue: JSSETM Date: 12-09-2022 to 16-09-2022

I, **Dr.Rekha B Venkatapur**, Professor & HOD, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "Intellectual Property Rights" at JSSATE, Bengaluru on 12th to 16th September 2022.

Brochure:



About FDP

The primary objective is to give the students an opportunity to apply the concepts they
learned to their own research problems and plan their respective research strategies to
avoid "rediscovering the wheel" and at the same time initiate the protection of the
Intellectual Property created during their research to aid in speedy transfer to application
centres / industries for commercialization.



K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

- The objective is to create IPR literates by exposing students to operational concepts in
- A common set of objectives of IPR Cell is to make the students aware of the relevant community-level intellectual property such as Geographical Indications that can be used for socio-economic development in communities.

Certificate:







CERTIFICATE OF PARTICIPATION

This is to certify that Dr. REKHA B VENKATAPUR participated in Five Days Faculty Development Programme on "Intellectual Property Rights" organized by the JSS Academy of Technical Education, Bangalore in collaboration with Cell for IPR Promotion and Management (CIPAM), Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industries, Government of India from 12th to 16th September, 2022.

Karan Thapar Deputy Secretary, DPIIT Cell for IPR Promotion and Management (CIPAM), Gol

Dr. Bhimasen Soragaon

Principal, JSS Academy of Technical Education, Bengaluru

SUBMITTED BY: Dr.Rekha B Venkatapur

() Wencutapy SIGNATURE OF FACULTY

Head of the Department Dept. of Computer Science & Engg K.S. Institute of Technology Bengaluru -560 109

2 moneyor

PRINCIPAL

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



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

FDP REPORT ON RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS

Venue: JIT

Date: 24-4-2023 to 28-4-2023

Mr. Abhilash L Bhat & Mrs. Swapna Subhash Banasode, Assistant Professor, Department of CSE, KSIT, I attended the 5 days FDP organized by the Department of Information Science & Engineering, in association with Visvesvaraya Technological University (VTU), supported by IEEE Bangalore chapter, is organising five day Faculty Development Program on *"RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS"* to foster the research and development activities of faculty in Data Science and Artificial Intelligence domains *from 24th April 2023-28th April 2023* at Jyothy Institute of Technology, Thataguni, Bangalore -82

The Programme is co-hosted by the Department of Computer Science and Engineering and the Department of Artificial Intelligence & Machine Learning, JIT.

Brochure:





K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

About FDP

The primary objective of this Five day Faculty Development Program (FDP) on RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This FDP focused on hands-on implementation of various algorithms to deliver practical skill to participants.

Certificate:





K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering



SUBMITTED BY: Mr. Abhilash L Bhat

SIGNATURE OF FACULTY

PRINCIPAL

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

O Neurasap ~

HOD

Head of the Department
Dept. of Computer Schine & Engg
K.S. histitus of Technology
Bengaluru -560 103



K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT ON

RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS

Venue: JIT Date: 24-4-2023 to 28-4-2023

I, Mr. Sanjoy Das, Assistant Professor ,Department of CSE,KSIT,I attended the 5 days FDP organized by the Department of Information Science & Engineering, in association with Visvesvaraya Technological University (VTU), supported by IEEE Bangalore chapter, is organising five day Faculty Development Program on *"RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS"* to foster the research and development activities of faculty in Data Science and Artificial Intelligence domains *from 24th April 2023-28th April 2023* at Jyothy Institute of Technology, Thataguni, Bangalore -82. The Programme is co-hosted by the Department of Computer Science and Engineering and the Department of Artificial Intelligence & Machine Learning, JIT.





Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

About FDP

The primary objective of this Five day Faculty Development Program (FDP) on RECENT ADVANCEMENT IN DATA INTELLIGENCE AND ITS APPLICATIONS was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This FDP focused on hands-on implementation of various algorithms to deliver practical skill to participants.

Certificate:



SUBMITTED BY: Mr. Sanjoy Das

SIGNATURE OF FACULTY

PRINCIPAL

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

HOD mundby

Head of the Department
Lept. of Computer Science & Engg
K.S. institute of Technology
Bengature -500 109



K.S.INSTITUTE OF TECHNOLOGY

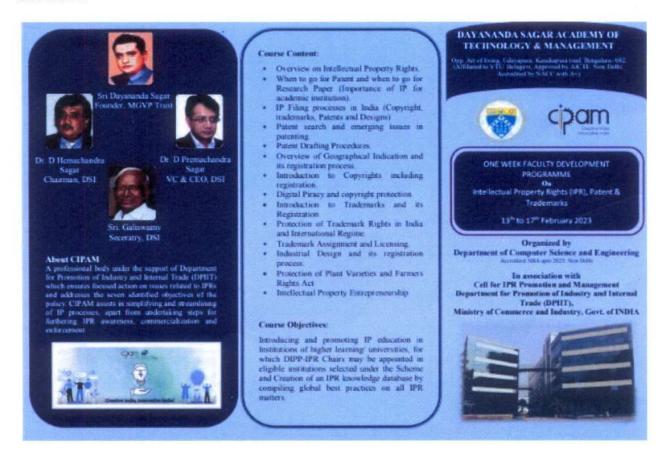
Department of Computer Science Engineering FDP REPORT ON

INTELLECTUAL PROPERTY RIGHTS (IPR)-PATENTS AND TRADEMARKS

Venue: DSATM Date: 13-2-2023 to 17-2-2023

I **Mr. Kushal Kumar B N** Assistant Professor, Department of CSE, KSIT attended Five Days Faculty Development Programme on —Intellectual Property Rights, Patents and Trademarks" in association with Cell for IPR Promotion and Management (CIPAM), Department for promotion of Industry an Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, organized by Department of Computer Science and Engineering, DSATM from 13th February – 17th February 2023

Brochure:





K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science & Engineering

About FDP:

Objectives of the FDP:

- Introducing and promoting IP education in Institutions of higher learning/ universities, for which DIPP-IPR Chairs may be appointed in eligible institutions selected under the Scheme and Creation of an IPR knowledge database by compiling global best practices on all IPR matters.
- Create awareness among faculty members about Intellectual Property Rights, Copyrights,
 Trademarks, when to go for patents, patent search, patent drafting

Details about the event:

Faculty Development Programme on "Intellectual Property Rights (IPR)-Patents and Trademarks" in association with Cell for IPR Promotion and Management (CIPAM), Department for promotion of Industry an Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, 13th Feb to 17th Feb 2023.

Resource Persons:

Content of Delivery	Resource Person
Chief Guest & Key Note Address by	Ms. Ginni Sabhrwal, Deputy Manager, CIPAM
Overview on Intellectual Property Rights	Mr. J.L. Anil Kumar, Senior Consultant, Lexorbis, Bangalore
When to go for Patent and when to go for Research Paper (Importance of IP for academic institution)	Ms. Mournita Gorai, Assistant Manager, CIPAM
IP Filing processes in India (copyright, trademarks, patents and designs)	Mr. Shravan Kumar Yadav, Associate, RVR Associates, Hyderabad
Patent Search and emerging issues in patenting	Dr. Manish Badani, Consultant, Lexorbis, Bangalore
Patent Drafting Procedures	Mr. Jnana Teja, Research Assistant, NLSU, Bangalore
Overview of Geographical Indication and its registration process	Mr. Jnana Teja, Research Assistant, NLSU, Bangalore
Introduction to Copyrights including registration	Ms. Kajol Andley, Assistant Manager, CIPAM
Copyright licensing and Infringement	Mr. Rishabh Gupta, Advocate, United and United
Digital Piracy and copyright protection	Mr. Waseem Ahmed, Managing Associate, INTTL Advocare
Introduction to Trademarks and its Registration	Mr. Prateek Shrivastava, IP Attorney, PNA & Technology Attorneys, Gwalior
Protection of Trademark Rights in India and International Regime	Mr. Prateek Shrivastava, IP Attorney, PNA & Technology Attorneys, Gwalior



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT

ON

NATIONAL EDUCATION POLICY FOR SKILL INDIA AND DATA ANALYTICS AND CLOUD COMPUTING"

Venue: City Engineering College

Date: 10-4-2023 to 15-4-2023

I, **Mr. Kumar K** Assistant Professor, Department of CSE, KSIT attended Five Days Workshop on "National Education Policy for Skill India and Data Analytics and Cloud Computing" organized by City Engineering College in Collaboration with Institution of Engineers (India) & Edunet Foundation & EYGDS(London) from 10th April – 15th April 2023.

Brochure:



About FDP:

The National Education Policy (NEP) plays a pivotal role in shaping India's educational landscape, particularly in the context of Skill India initiatives aimed at enhancing employability and fostering economic growth. In recent years, there has been a growing emphasis on emerging technologies such as Data Analytics and Cloud Computing, which have the potential to revolutionize various industries. This report delves into the integration of these technologies within the framework of the NEP, outlining strategies to promote skill development in these domains.

The integration of Data Analytics and Cloud Computing within the framework of the National Education Policy presents a significant opportunity to equip India's workforce with relevant skills for the digital era. By focusing on curriculum enhancement, skill development programs, research and innovation, and industry-academia collaboration, India can position itself as a global hub for



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

talent in these critical domains. The concerted efforts of policymakers, educational institutions, industry stakeholders, and the government are essential to realizing this vision and driving sustainable economic growth through skill development

Certificate:



SUBMITTED BY: Mr. Kumar K

SIGNATURE OF FACULTY

HOD

Head of the Department

Dept. of Computer Science & Enga

K.S. Institute of Technology

Sencature Sci 169

we war ap -

PRINCIPAL

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



K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT

ON

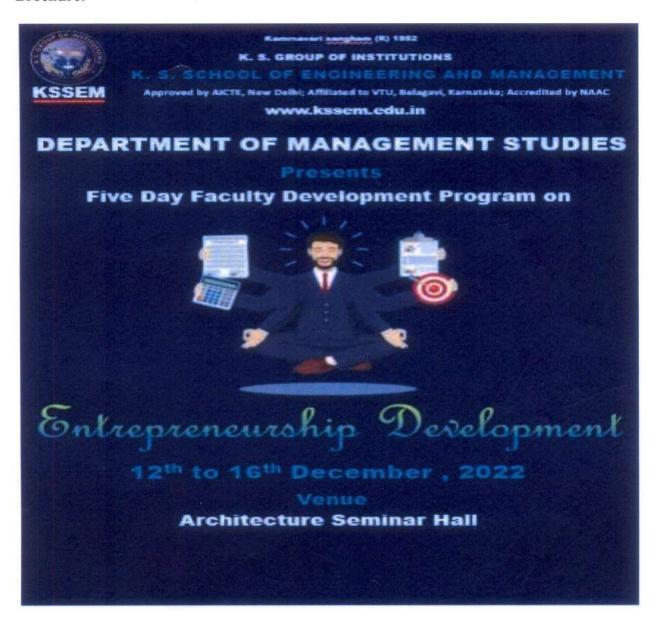
ENTREPRENEURSHIP DEVELOPMENT

Venue: KSSEM

Date: 12th - 16th December, 2022

I, Mr. Krishna Gudi, serve as an Assistant Professor in the Department of Computer Science and Engineering at KSIT. I had the privilege of participating in a comprehensive Five-Day Faculty Development Program focused on 'Entrepreneurship Development'. This enriching program took place from December 12th to 16th, 2022, and was meticulously organized by the Department of Management Studies at the K S School of Engineering and Management.

Brochure:





K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering



About FDP:

To introduce participants to the fundamentals of Entrepreneurship To train and develop professionals in the area of entrepreneurship, innovation and incubation

Outcomes of the FDP: The FDP facilitated the participants to understand the concepts of entrepreneurship and its varied dimensions FDP enabled the promotion of the scope of entrepreneurship among faculty and the students about entrepreneurial careers. In the 5 days FDP, given presentation on 'Entrepreneurship in the Present Scenario'. Based on resource person (Mr Venugopal Gupta has worked at Hindustan Aeronautics Ltd as General Manager – Joint Ventures and Out Sourcing at Corporate office. He joined HAL in 1982 at Nasik Division) experience and knowledge, sir had shared how fast the current scenario is growing and changing its pattern. Environment becoming more creative day by day and every creativity becomes a new entrepreneurship in the market. At present he is engaged in sharing his experiences with Young people who are on their way to corporate ladder and shaping businesses to new levels. This Five days Faculty Development on Entrepreneurship Development for creating Entrepreneurs for new generation students was hosted by Prof. Roopa Balavenu. Initiated the Program through Invocation song by Prof. Rupa Das Chatterjee, FDP Summary by Prof. Vidyashree V, Welcome speech by Dr. Shekar H S, HOD-MBA, and

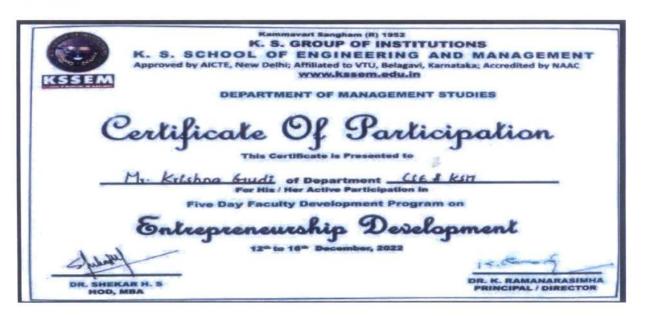


K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

Introduction of Chief 19 Guest Dr. S Subramanya Swamy. The Chief Guest addressed the students on the importance of Entrepreneurs to our country. Later, the felicitation to chief guest by Principal & CEO. CEO and Principal addressed the participants in the Program and concluded through Vote of thanks by Prof. Sreedhar.

Certificate:



SUBMITTED BY: Mr. Krishna Gudi

SIGNATURE OF FACULTY

maratab.

HOD

Dept. of Computer Science & Engg K.S. Institute of Technology Bengaluru - 560 109 PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109.

Shumagi



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

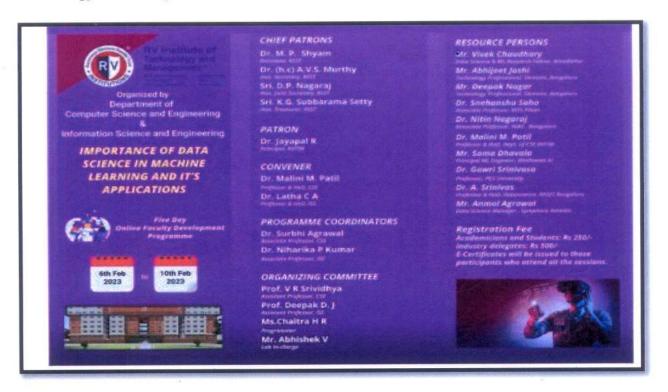
FDP REPORT

ON

IMPORTANCE OF DATA SCIENCE IN MACHINE LEARNING AND ITS APPLICATIONS

Venue: RVITM Date: 6-2-2023 to 10-2-2023

Mrs. Kavya M S, Mrs. Supreetha Ganesh & Mrs. Beena K, Assistant Professor, Department of CSE .KSIT, attended Five Days Faculty Development Programme on —Importance of Data Science in Machine Learning and its Applications" organized by Department of Computer Science and Engineering and Information Science and Engineering, R V Institute of Technology and Management from 6th February - 10th February 2023.



About FDP

This FDP has been proposed to have deeper insights about how much understanding of data, it's statistics, it's interpretation is important before we use ML techniques on them. We had eminent faculties from various Institutes across India. We had a182 participants who attended this FDP from Institutes like VTU-Belagavi, SJCE-Mysore, Acharya Institute-Bengaluru, KSIT, etc. The speakers of all the sessions were welcomed and so were the participants. The speakers were from premier Institutes like BITS, GOA, National Institute of Advanced Studies,



K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

Bangalore, RNSIT Bangalore, RVITM, Bangalore. PES University Bangalore and Industry experts from AlmaBetter Bengaluru, WadhwaniAi, Symphony RetailAi, Siemens Technology. They all have vast and deep knowledge in the area of data science and machine learning in their working domains and hence will introduce. The FDP concluded with a Valedictory address and feedback was taken from participants for each session as well as overall feedback on the FDP was taken. E-certificates were issued on completion of Quiz

Certificates:







K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering



SUBMITATED BY: Mrs. Kavya M S

SIGNATURE OF FACULTY

on marupa HOD

Head of the Department Dept. of Computer Science & Engg K.S. Institute at Technology Bengaluru -560 109

PRINCIPAL

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 108.



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING









REPORT ON

6 Day Faculty Development Program on R PROGRAMMING AND ITS APPLICATIONS



Organizing Chair

Dr. Rekha B Venkatapur Professor & Head, Department of CS&E KSIT BANGALORE

Conveners

Dr. H S Prasantha, Professor, Department of CSE KSIT BANGALORE Mr. Kushal Kumar B N Assistant Professor, Department of CSE KSIT BANGALORE

CONTENTS

Sl	Particulars	Page no
1	FDP Brochure	3
2	FDP Inauguration Brochure	4
3	Program schedule	5
4	Department committees	6
5	Participants list	7
6	Speaker details	8-13
7	Session-wise details	14-38
8	Feedback Questionnaire	39-40
9	Assessment questions	41-44

FDP Brochure

CHIEF PATRONS

Sri R. Rajagopal Naidu President, Kammavari Sangham

Sri R. Leela Shankar Rao

Hon. Secretary, Kammavari Sangham

Sri T.Nee rajakshulu Naidu

Treasurer, Kammavari Sangham

PATRONS

Dr. K.V.A. Balaji

CEO, KSGI

Dr. Dilip Kumar K Principal / Director, KSIT

ORGANISING CHAIR

Dr. Rekha B Venkatapur

Professor & Head of the Department Computer Science & Engineering, KSIT

CONVENERS

Dr. Prashantha HS

Professor, Department of Computer Science & Engineering,

Mr. Kushal Kumar B N

Asst. Professor, Department of Computer Science & Engineering, PRIT

ORGANISING COMMITTEE

Mr. Harshavardhan J R

Assoc. Professor, CSE, KSIT

Dr. Vijayalaxmi Mekali Assoc. Professor, CSE, KSIT

Mr. Sanjoy Das

Assistant Professor, CSE, KSIT

Mr. Roopesh Kumar B N

Assistant Professor, CSE, KSIT

Mr. Kumar K

Assistant Professor, CSE, KSIT

Mr. Raghavendrachar S

Assistant Professor, CSE, KSIT

Mr. Krishna Gudi

Assistant Professor, CSE, KSIT

Mr. Prashanth H S

Assistant Professor, CSE, KSIT

Mrs. Beena K

Assistant Professor, CSE, KSIT

Mr. Manoj Kumar S

Assistant Professor, CSE, KSIT

Mrs. Pallavi K N

Assistant Professor, CSE, KSIT

Mrs. Rashmi H

Assistant Professor, CSE, KSIT

Mrs. Kavya M S

Assistant Professor, CSE, KSIT

Mr. T Somasekhar

Assistant Professor, CSE, KSIT

Mrs. Supreetha Ganesh

Assistant Professor, CSE, KSIT

Mrs. Pallavi R

Assistant Professor, CSE, KSIT

Mr. Laxmikanth

Assistant Professor, CSE, KSIT

Ms. Namyapriya D

Assistant Professor, CSE, KSIT

Mrs. Ramanjinamma G Assistant Professor, CSE, KSIT

TOPICS TO BE COVERED IN FDP

- Introduction to data science & Hands-on session
- Mathematical Preliminaries, Data science and Big data & Hands-on session
- Data Science using R programming & Hands-on session
- Machine learning using R, Machine learning using R examples & Hands-on session
- Image Processing using R, Image Processing using R examples
- Mini Project













Six Days Faculty Development program

on

R PROGRAMMING & IT'S APPLICATIONS

27th March to 1st April 2023

Venue

K S INSTITUTE OF TECHNOLOGY, Bengaluru



Organized by
Department of
Computer Science & Engineering



FDP Inauguration Brochure



The Management, CEO, Principal & Staff
Cordially invite you for the Inaugural Function of
6 Days Faculty Development Program
[27th March 2023 to 1 April 2023]

Organized by Department of CSE & ECE

on 27th March at 9.30 am in Conference Hall, KSIT

Chief Guest

Dr. C. P. Ravi Kumar

Director of Talent Development,

Texas Instruments, India

Presided By

Sri. R. Rajagopal Naidu

President, Kammavari Sangham

Will Grace the Occasion

Sri. R. Leela Shankar Rao

Hon. Secretary, Kammavari Sangham

Sri. T. Neerajakshulu Naidu

Treasurer, Kammavari Sangham

Dr. K. V. A. Balaji CEO, KSGI

Dr. Dilip Kumar K

Principal & Director

Dr. P. N. Sudha Prof & Head, ECE Department

Dr. Rekha B Venkatapur







K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

6 Day Faculty Development program on R PROGRAMMING AND ITS

APPLICATIONSPROGRAM SCHEDULE

DATE	SESSION 1	10.30-	SESSION 2	12.30	SESSION 3
	(9 AM -10.30AM)	11 AM	(11 AM – 12.30 PM)	PM - 1.30	(1.30 PM – 3.30PM)
28/3/2023	REGISTRATI ON &INAGURATI ON		KEYNOTE ADDRESS Dr. C. P. Ravi KumarDirector of Talent Development, Texas Instruments, India	PM	Hands-On Session 1 Dr. H S Prasantha, Professor KSIT Introduction, Numeric, Arithmetic, Assignment
28/3/2023	Dr. Rekha Padke, Associate Professor,NMIT Bangalore Time series analysis using R	TEA BREA K	Dr. Rekha Padke, Associate Professor, NMIT Bangalore Forecasting using R	LUNC H BREA	Hands-on session 2 Dr. H S Prasantha, Professor KSIT Vectors, Matrices and Arrays
29/3/2023	Dr.Gourish Goudar, Assistant Professor NMIT Bangalore Statistical Modelling, Distribution Fitting and Plotting the graphs using R/R-studio		Dr. Vijayakrishna, Senior Architect, Robert Bosch Mathematical Preliminaries	K	Hand-on Session -3 Mr.Kushal Kumar B N, KSIT Lists and data frames
30/3/2023	Dheeraj .D, Assistant Professor GAT Bangalore Machine learning/Alusing R		Dheeraj .D, AssistantProfessor GAT Bangalore Examples of Machine learning/AIusing R		Hand-on Session -4 Mr. Kushal Kumar B N,KSIT Functions
31/3/2023	Dattaramu. B A, Director- Data Science,Noodles.AI Use Cases and Landscape of AnalyticsProjects: An Industrial Perspective		Dr. H S Prasantha, Professor KSIT Image Processing using R		Hand-on Session-5 Mr. Kushal Kumar B N,KSIT Pointers
1/4/2023	Mr. Ravindranath, PhDscholar NIT Trichy Biomedical signal processing using R		Mr. Ravindranath, PhD scholar NIT Trichy Examples on Biomedical signal processing		Valedictory function

KSIT

K.S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

R PROGRAMMING & It's APPLICATIONS

Department Level Committee Coordinators

1. Registrations Committee

Faculty Coordinator: Dr. VijayalaxmiMekali

Faculty Member:

Mr. Prashanth H S

Mrs. Supreetha Ganesh

Mr. Manoj Kumar S

Mrs. Pallavi R

Mr. Laxmikantha K

Mrs. Divya R G

Mrs. Geetha T

Ms. Preethi R

2. Stage Committee

Faculty Coordinator: Mrs. Beenak K

Faculty Members:

Mrs. Kavya M S

Mrs. Pallavi K N

Mrs.Rashmi H,

Mrs. VimalaKumari V

Mrs. KeerthanM N

Mrs. Mounika G

Mr. Babu G

3. Hospitality Committee

Faculty Coordinator: Mr. Harshavardhan J R

Faculty Members:

Mr. Sanjoy Das,

Mr. Roopesh Kumar B N

Mr. Raghavendrachar S

Mr. Somasekhar T

Mr. Om Prakash S

Mr. Krishna Gudi (Transportation facility for Chief Guest and Resource persons if required)

4. Lab in-charge During Hands on Session

- 1. Mr. Kumar K
- 2. Mrs. Namyapriya D
- 3. Mrs. Ramanjinamma G



K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

6 Day Faculty Development program on R PROGRAMMING AND ITS

APPLICATIONS Registration details

Sl. No.	Name	Organization
1	Ms. Anitha M C	SVIT
2	Mrs. Rekha Murthy	SVIT
3	Mrs. Supriya R K	DSATM
4	Mrs. Swathi Darla	RVITM
5	Mrs. Padma Sree N	RVITM
6	Mrs. Prabhavathi K	RVITM
7	Mrs. Harshitha B K	DSATM
8	Ms. Roopa K Murthy	KSIT
9	Ms. Kiranashree B K	TJIT
10	Ms. Shilpa Sannamani	TJIT
11	Mrs. Apoorva Busad	DSATM
12	Mrs. Nandini D	JIT
13	Ms. Rakshatha S	JIT
14	Ms. Divya Sharma	NHCE
15	Ms. Sarala D V	DSCE
16	Mrs. K K Kavitha	KSIT
17	Ms. Sushma A	KSIT
18	Ms. Surekha Byakod	KSIT
19	Ms. Lakshmi K K	KSIT
20	Dr. M Nirmala	NHCE
21	Ms. Namyapriya Dayananda	KSIT
22	Mr. Sampath Kumar S	KSIT
23	Ms. Sheela S	GAT
24	Dr. Shalini S	GAT
25	Dr. Nandeeswar S B	APSCE
26	Dr. Vijayalaxmi Mekali	KSIT
27	Mrs. Rajashree M Byalal	APSCE
28	Mrs. Ramanjinamma G	KSIT
29	Mrs. Bhagyashree R	APSCE
30	Ms. Jyothi S	GAT
31	Mrs. Rashnmi H	KSIT
32	Mrs. Ishani Mishra	NHCE
33	Mr.Somashekar	KSIT

SPEAKER DETAILS



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE

Department of Computer Science and Engineering
Six Days Faculty Development on "R Programming and its Applications"

(27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Dr. A Vijayakrishna

Designation: Senior Architect

Organization: Bosch Global Software Technologies

Phone: 98441 66478

Email: a.vijayakrishna@in.bosch.com



- Currently working as Senior Architect Bosch Global Software Technologies in the area of Internet of Things (IoT), Cyber security, Cryptography
- Served as Professor in the department of Electronics & Communication Engineering from 2008-2022 handling courses related to communication an Signal Processing, Guiding PhD students, Guiding Projects (UG & PG), framing syllabus, served as Member – BOS, BOE DPAC committees, conducting coaching for Gate classes (for PES ECE students) mentoring Junior faculties, etc..
- Graduated from SJCE Mysore (E&CE) 1994-98, masters from Indian Institute of Science (IISC) 1999-2001 and PhD from Indian Institute of Science (IISC)2002-2006
- Served as an expert member for handling session on Mathematical preliminaries, Signal Processing and Communication related topics at various organizations and Institutes
- Served as member for research committee, doctoral committee under VTU and PES university
- Published papers in Journals and conferences of repute
- Served as Reviewer for various Journals and conferences



Department of Computer Science and Engineering
Six Days Faculty Development on "R Programming and its Applications"

(27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: B A Dattaram

Designation: Director for Data Science

Organization: Noodle.ai

Phone: 95919 82000

Email: badattaram2@gmail.com



- B.A. Dattaram is a highly experienced analytics professional with 18 years of industry experience.
- He graduated in Instrumentation and Electronics from SIT, Tumkur, and completed his specialization in Machine Learning from IIM, Bangalore in 2011.
- Dattaram was a part of IBM's AI Expert labs and currently serves as the Director for Data Science at Noodle.ai. His extensive experience ranges from AI product development to Data Science leadership roles and includes contributions to various domains, including Manufacturing and Supply Chain.
- Dattaram's work has been recognized with several key awards, including the 'Outstanding Technical Achievement Award' from IBM and the 'AI Game changing (2018)' award presented by NASSCOM.
- He has also been granted three patents
- He is a guest speaker at IIM, Bangalore on Hidden Markov Models for executive courses.
- Dattaram's contributions to the field of analytics extend beyond his professional work, as he has authored several publications and is a frequent speaker at conferences on thetopic.



Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Dr. Gourish Goudar

Designation: Assistant Professor

Organization: Nitte Meenakshi Inst of Technology

Phone: 77605 09192

Email: gourish.goudar@nmit.ac.in



- Dr. Gourish Goudar has completed his ME and PhD in the area of Mobile and Wireless Networks from BITSPilani.
- He has worked as SDE at AMAZON development center, Bengaluru.
- He has a total of 2 years industry experience, 2.5 years in academics and 5 years as senior researchfellow.
- He is the awardee of the prestigious UGC JRF and NET by MHRD, Govt.ofIndia.
- He has won the PhD forum best paper award at IEEE International conference on Advanced Networks and Telecommunication Systems (ANTS),2017.
- He has published research articles in highly reputed journals such as IEEE Transactions and IEEE COREconferences.
- His current areas of research include Future Networks, Intelligent Transportation Systems, Machine Learning and Mathematical Modelling.
- He is currently working as Assistant Professor in Dept. of Artificial Intelligence and Data Science, NMIT, Bengaluru.



Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Dr. Rekha Padke

Designation: Associate Professor

Organization: Nitte Meenakshi Inst of Technology

Phone: 99017 33233

Email: rekhaphadke@gmail.com



- Graduated as Electronics and Communication Engineer from JNNCE, Shimoga and Post-Graduation in Digital Communication and Networking from SJCIT, Chickaballapur in 2008.
- Awarded PhD for Developing Algorithms for Glucose Monitoring in a closed loop System from University of Mysore in2021
- Currently Pursuing PG certified Course of 13 months in Computation Data Science from Indian Institute of Science.
- 20+ years of working experience in teaching handling various courses. Handled most of the basic courses for ECE students and Programming oriented courses for ECE, and other branches.
- Handled various Program or algorithm-based courses for ECE, and other branchstudents
- Guided about 20 undergraduate Projects, 4 PG projects related to cutting edgetechnologies
- Published around 15 papers. One of my PhD work is published in Sadhana along with Dr.Abhijit Bhograj, a renowned Diabetician inBangalore.
- Framed syllabus and contents for ECE and Data science branches (Autonomous).
- Served and serving as BOS/BOE Member for NMIT and presented session for students helping them for placement relatedactivities.
- Served and serving as Domain head in the area of Data science and Machine learning for Project relatedactivities.



Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Mr. Ravindranath K

Designation: Research Scholar

Organization: NIT, Trichy

Phone: 97424 20155

Email: ravindranath321@gmail.com



- 10+ years of experience in the Research and academic profession, spearheading diverse teams and people worked at NMIT and DBITBangalore
- Bachelor of Engineering from Vivekananda Institute of Technology, Master of Technology from RNS Institute of Technology Bangalore and Pursuing Ph.D. (2019-Till date), National Institute of Technology Tiruchirappalli (Final stage ofcompletion)
- <u>Projects Completed</u>: 1) Novel classification algorithms were built to classify the Histopathological images 2) Novel automated algorithms were developed using the deep learning toolbox of MATLAB to classify skin cancer and brain tumordatasets.
- On Going projects: 1) developing Hybrid models by combining convolutional neural networks and long short-term memory to efficiently classify CT Lung images provided by Kangwon medical university and hospital, South Korea, and Chonbuk National University and Hospital, South Korea 2) Studies are being made to automatically diagnose MRI Breast Images from Kangwon medical university and hospital South Korea. 3) Segmentation of Mediastinal images from CT chest images from Kangwon medical university and hospital, South Korea. 4) Supported the University of Saskatchewan, Canada team for rib segmentation. 5) Hardware implementation of LiteHistoNet on Raspberry Pi for reducing the number of parameters used by neuralnetworks.
- Published research manuscripts in reputed science citation and Scopus-indexedjournals
- Visited the University of Saskatchewan, Canada, under the Scheme for Promotion and Research Collaboration, India, funded by the Ministry of Human Resource & Development.
- Cleared UGC NET exam conducted by UGC, DEC 2013, 2014,2015



Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Mr. Dheeraj . D

Designation: Assistant professor

Organization: GAT Bangalore

Phone: 9880166448

Email: dwarakanathdheeraj@gmail.com

- Mr. Dheeraj D, currently works as an Assistant Professor in Dept.of ISE, Global Academy
 of Technology. He has about 15 years of experience in teaching including 4 years of
 research expertise in the field of bio-medical engineering and augmentedreality.
- His research interests include data science, deep learning and optimization, hyperparameter tuning, parallel processing, augmented reality and data mining and visualization.
- 40+ publications in peer journals and conferences. He has received many best paper awards in the past. He has 23 citations and h-index of 3 and i-10 index of 1.
- He has 2 Indian patents published in his name.
- He is a reviewer for ASTES and JENRS Journal in the field of computational intelligence.
- He has reviewed and contributed book chapters for the book entitled Introduction to Computing and Programming in Python with pearson publishers
- He owns 3 student clubs at GAT for promoting open source technologies, competitive programming and interdisciplinary projects.
- He has guided and completed more than 40 projects under UG and PGlevel.
- He is a technical consultant at Infidata Technologies and Dhwajani Technologies till date.
- Served as a resource person in FDPs conducted at RVCE, SVCE, DSCE, SVIT, REVA
- He has also delivered talks on machine learning and deep learning in about 2 ATAL sponsored FDPs and chaired few sessions in national conferences aswell.
- He is a recipient of various awards in sports and also recipient of academic excellence awardtoo.
 - o He is a Sun Certified Java Programmer in Java 1.4.
 - Infosys certified Python Programmingtrainer.
 - O Wipro certified Full Stack Developmenttrainer.
 - o Also, he has many certifications under coursera andswayam.
- He also has served as a JURY at various state and national level hackathons and most importantly as a JURY for smart India hackathon 2020 software and 2021-hardware version. He also is a recognized mentor and jury at BiTesXcellerator Project competition at the national level from 2018onwards.
- Conducted many technical events, coding competitions, state and nation levelhackathons.
- life member of professional bodies such as IAENG, IFERP, MISTE, ISTE and IACSIT.



Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Dr. H S Prasantha

Designation: Professor

Organization: K.S. Institute of Technology Bangalore

Phone: 9902058362

Email: drhsprashanth@gmail.com



- Currently serving as Professor CSE Department KSIT and previously served as Professor at NMIT, PESIT and EWIT (more than 21 years of experience)
- Graduated from ECE under BU, MTech from VTU and PhD from Anna university Chennai during2012
- Extensive experience in executing Teaching/Training courses related to the Signal Processing and Machine Learning for Under-Graduate (UG) and Post-Graduate (PG)
 Programs (Handled most of the courses, framed syllabus and contents in the domain)
- Guiding Under-Graduate and Post-Graduate Projects related to Signal Processing and Machine learning (Guided more than 100 UG projects, more than 25 PGProjects)
- Guiding Research students for PhD in the area of Signal Processing and Machine Learning,
 Publishing papers in the area of Signal Processing and Machine Learning (Guided 2 students for PhD and guiding 3 students for PhD program under VTU)
- Published more than 80 papers in Reputed Journals and conferences with more than 450 citation and h index 0f 10, research gate citations of 500
- Served and serving as Reviewer for many reputed Journals and conferences including IEEE transactions, Jon WILEY, etc.
- Served and serving as Session chair for manyconferences
- Served and serving as Editorial Board member for VariousJournals
- Filed onepatent
- Served and serving as Member BOS NMIT, PESIT, CMRUniversity
- Served and serving as Member BOE NMIT, PESIT, Reva University, UVCE
- Served and serving as Academic council member for PESCE Mandya,
 CMRuniversityServed and research council member at NMIT from 2014 to 2022
- Served as Member Research Committee VTU and RevaUniversity
- Served as Guest speaker for various Institutes and Organizations
- He is a member of professional bodies such as IEEE (Senior Member), IEEE Signal Processing Society, IEEE –Commuter Society, IET, ISSE, Felow-IETE, IAENG, IFERP, MISTE, etc.
- Served as Doctoral committee member for Research scholars under VTU, Reva University, JainUniversity

Department of Computer Science and Engineering

Six Days Faculty Development on "R Programming and its Applications" (27th March 2023 to 1st April 2023)

PROFILE DETAILS

Name: Mr. Kushal Kumar B N

Designation: Asst. Professor

Organization: K.S. Institute of Technology Bangalore

Phone: 9900533883

Email: kushalkumarbn@ksit.edu.in



- Currently serving as Asst.Professor CSE Department KSIT
- Graduated from ISE under VTU & M. Tech from VTU
- Secured 3rd rank for the Visvesvaraya Technological University in M. Tech
- Pursuing PhD in VTU
- GATE Computer Science Qualified with 92.8 percentile
- Mentored a Team from KSIT named Pacman Bytes has won the first place in Smart India Hackathon under the problem statement of Ministry of Civil Aviation.
- Delivered Guest lecture on Discrete Mathematical Structures at K S School of Engineering and Management
- NBA Department Coordinator
- Handled NBA (National Board of Accreditation) criteria 3
- Handled NAAC (National Assessment and Accreditation Council) criteria 2
- Result Analysis Coordinator
- Technical Seminar Coordinator
- Member of Academic Committee
- Member of Cultural Committee
- Member of VTU flying squad Team

SESSION – 1 DETAIL

TOPIC: Registration and Inauguration of the FDP program

SCHEDULE: 9.30 AM to 11AM

Brief details about the session

The FDP program was designed to address the contents of 4th semester syllabus along with research opportunities in various domain such as Image Processing, Biomedical Signal Processing, Data science, Machine Learning with hands-on demonstrations using R language.FDP also covered mathematical preliminaries required for faculty pursuing research or planning to pursue research in the related domain.

The FDP was inaugurated by the dignitaries such as Dr. C P Ravikumar - Director of Talent Development Texas Instruments India Sri. R. Rajagopal Naidu, - President K S Group of Institution, Sri. R. Leela Shankar Rao - Hon. Secretary K S Group of Institution, Sri. T. Neerajakshulu Naidu – Treasurer K S Group of Institution, Dr. K. V. A. Balaji - Chief Executive Officer K S Group of Institution, Dr. Dilipkumar K - Principal & Director, KSIT, Dr. Rekha B Venkatapur - Head Department of CS&E KSIT, Dr.Sudha P N – Head, Department of E&CE KSIT. The program was attended by Principal & Director KSSEM, Principal K S School of Architecture, Principal PU College, Heads of all the departments of KSIT and KSSEM, Faculties of KSIT (both teaching and Non-teaching), Participants from various Institutes across Bangalore.

The agenda of the Inaugural Session are as follows:

Inaugural Function Agenda

Invocation Song:	Mr. Sanjeev and Ms. Bhumika
Welcome Address:	Dr. Dilip Kumar K
Lighting the Lamp:	Chief Guest and Dignitaries
Introduction of Chief Guest:	Dr. Rekha B. Venkatapur
Address by Chief Guest:	Dr. C.P Ravi Kumar
Address by President:	Sri. R. Rajagopal Naidu
Address by Secretary:	Sri R. Leela Shankar Rao
Address by Treasurer:	Sri. T. Neerajakshulu Naidu
Address by CEO:	Dr. K.V.A. Balaji
Vote of Thanks:	Dr. P.N Sudha

Few Glimpse from the inaugural Session



















Registration snapshots

DAY 1: Session 2 Date: 27/03/2023

KEY NOTE ADDRESS

Keynote Speaker: Dr. C P Ravikumar Director of Talent Development Texas Instruments India

Topic: Perspectives in Programming Schedule: 11 AM to 12 PM

The keynote speaker introduces about the two programming languages such as PYTHON and R. The speaker explained the necessity of programming languages to improve the quality of learning and teaching.



<u>Day 1 Session 2</u> Date: 27/03/2023 Time: 11 AM to 12 PM

KEY NOTE ADDRESS
BY
Dr. C. P. Ravi Kumar
Director of Talent Development,
Texas Instruments, India

Perspectives in Programming

Dr. C. P. Ravi Kumar Director of Talent Development, Texas Instruments, India



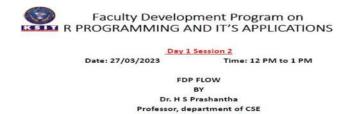
DAY 1: Session 2 Date: 27/03/2023

FDP Flow

Speaker: Dr. H S Prasantha, Professor CS&E KSIT Bangalore

Topic: FDP Design flow **Schedule:** 12 PM to 1 PM

The speaker introduces about R programming language and briefed about 6 days session details and contents of each session to be covered by different speakers.



FDP DAYWISE AND SESSIONWISE DETAILS ABOUT TOPIC AND SPEAKER

K.S.Institute of Technology



Dr. H S Prashantha Professor, department of CSE K.S.Institute of Technology



DAY 1: Session 3 Date: 27/03/2023

Speaker: Dr. H S Prasantha, Professor CS&E KSIT Bangalore

Topic: Hands on session covering Module 1 **Schedule:** 1.30 PM to 3.30 PM



Day 1 Session 3

Date: 27/03/2023

Time

Time: 1.30 PM to 3.30 PM

HANDS-ON SESSION
BY
Dr. H S Prashantha
Professor, department of CSE

K.S.Institute of Technology

Module 1: Numeric, Arithmetic, Assignment, and Vectors: R for Basic Math, Arithmetic, Variables, Functions, Vectors, Expressions and assignments Logical expressions.



Dr. H S Prashantha Professor, department of CSE K.S.Institute of Technology



DAY 2: Session 1 Date: 28/03/2023

Speaker: Dr. Rekha Phadke, Associate Professor NMIT Bangalore

Topic: Introduction to Time series analysis and Forecasting using R Schedule: 9 AM to 10.30 AM



Day 2 Session 1

Date: 28/03/2023

Tim

Time: 9 AM to 10.45 PM

BY

Dr. Rekha Phadke, Associate Professor NMIT Bangalore

Time series Analysis using R



Dr. Rekha Phadke, Associate Professor NMIT Bangalore



DAY 2: Session 2 Date: 28/03/2023

Speaker: Dr. Rekha Phadke, Associate Professor NMIT Bangalore

Topic: Introduction to Time series analysis and Forecasting using R **Schedule:** 11 AM to 12.45 PM



Date: 28/03/2023

Day 2 Session 2 Time: 11 PM to 12.45 PM

BY
Dr. Rekha Phadke,
Associate Professor
NMIT Bangalore

FORECASTING USING R



Dr. Rekha Phadke, Associate Professor NMIT Bangalore



DAY 2: Session 3 Date: 28/03/2023

Speaker: Dr. H S Prasantha, Professor CS&E KSIT Bangalore

Topic: Hands on session covering Module 2 **Schedule:** 1.30 PM to 3.30 PM



Day 2 Session 3

Date: 28/03/2023

Time: 1.30 PM to 3.30 PM

HANDS-ON SESSION
BY
Dr. H S Prashantha
Professor, department of CSE
K.S.Institute of Technology

Module 2: Conditions and Looping: if statements, looping with for, looping with while, vector based programming.

Hands-on Session - 2



Dr. H S Prashantha Professor, department of CSE K.S.Institute of Technology



DAY 3: Session 1 Date: 29/03/2023

Speaker: Dr.Gourish Goudar, Assistant Professor NMIT Bangalore Schedule: 9 AM to 10.30 AM

Topic: Statistical Modeling, Distribution and plotting the graphs using R/R-Studio



Date: 29/03/2023

Day 3 Session 1
Time: 9 AM to 10.45 PM

BY

Dr. Gourish Goudar Assistant Professor NMIT Bangalore

Statistical Modeling, Distribution Fitting and Plotting the graphs using R/R-studio



Dr. Gourish Goudar Assistant Professor NMIT Bangalore



DAY 3: Session 2 Date: 29/03/2023

Speaker: Dr. A Vijayakrishna, Senior Architect, Bosch Global Software Technologies

Topic: Mathematical Preliminaries **Schedule:** 11 AM to 12.45 PM



Date: 29/03/2023

Day 3 Session 2 Time: 11 PM to 12.45 PM

ВУ

Dr. A Vijayakrishna Senior Architect Bosch Global Software Technologies

MATHEMATICAL PRELIMINARIES



Dr. A Vijayakrishna Senior Architect Bosch Global Software Technologies



DAY 3: Session 3 Date: 28/03/2023

Speaker: Mr.Kushal Kumar, Assistant Professor CS&E KSIT Bangalore

Topic: Hands on session covering Module 3 **Schedule:** 1.30 PM to 3.30 PM





DAY 4: Session 1 Date: 30/03/2023

Speaker: Mr. Dheeraj D, Assistant Professor GAT Bangalore Schedule: 9 AM to 10.30 AM

Topic: Machine Learning basics and Machine learning using R



Date: 30/03/2023

Day 4 Session 1
Time: 9 AM to 10.45 PM

BY Mr. Dheeraj D Assistant Professor GAT Bangalore

Machine Learning basics and Machine learning using R





DAY 4: Session 2 Date: 30/03/2023

Speaker: Mr. Dheeraj D, Assistant Professor GAT Bangalore

Topic: Machine Learning basics and Machine learning using R Hands-on Schedule: 11 AM to 12.45

PM



Date: 30/03/2023

Day 4 Session 2 Time: 11 PM to 12.45 PM

BY Mr. Dheeraj D Assistant Professor GAT Bangalore

Machine Learning basics and Machine learning using R Hands-on



Mr. Dheeraj D Assistant Professor GAT Bangalore



DAY 4: Session 3 Date: 30/03/2023

Speaker: Mr. Kushal Kumar, Assistant Professor CS&E KSIT Bangalore

Topic: Hands on session covering Module 4 **Schedule:** 1.30 PM to 3.30 PM



<u>Day 4 Session 3</u> Date: 30/03/2023 Time

Time: 1.30 PM to 3.30 PM

HANDS-ON SESSION

Mr.Kushalkumar Assistant Professor, department of CSE K.S.Institute of Technology

Module 4: Functions: Calling Functions, scoping, Arguments matching, writing functions: The function command, Arguments, specialized functions.

lands-on Session - 4



Mr. Kushalkumar Assistant Professor, department of CSE K.S.Institute of Technology



DAY 5: Session 1 Date: 31/03/2023

Speaker: Mr. Dattaram B A, Director Data Science, Noodle.AI Schedule: 9 AM to 10.30 AM

Topic: Use cases and landscape of data science Projects – An industrial Perspective





DAY 5: Session 2 Date: 31/03/2023

Speaker: Mr. Dheeraj D, Assistant Professor GAT Bangalore **Topic:** Project Demonstration of classification using R



Day 4 Session 2

Date: 31/03/2023 Time: 11 PM to 12.45 PM

BY

Mr. Dheeraj D

Assistant Professor

GAT Bangalore

Project Demonstration on classification using R





Schedule: 11 AM to 12.45 PM

DAY 5: Session 3 Date: 31/03/2023

Speaker: Mr.Kushal Kumar, Assistant Professor CS&E KSIT Bangalore

Topic: Hands on session covering Module 5 **Schedule:** 1.30 PM to 3.30 PM



Day 5 Session 3

Date: 31/03/2023

Time

Time: 1.30 PM to 3.30 PM

HANDS-ON SESSION

Mr. Kushalkumar

Assistant Professor, department of CSE K.S.Institute of Technology

Module 5: Pointers, Object Oriented Programming in R

lands-on Session – 5

Mr.Kushalkumar
Assistant Professor, department of CSE
K.S.Institute of Technology



DAY 6: Session 1

Speaker: Mr. Ravindranath K, Research scholar NIT Trichy **Schedule:** 9 AM to 10.30 AM

Topic: Introduction to Biomedical Signal Processing



Day 6 Session 1

Date: 01/04/2023 Time: 9 AM to 10.45 PM

BY

Mr. Ravindranath K Research Scholar – NIT Trichy

Introduction to Biomedical Signal Processing



Mr. Ravindranath K Research Scholar – NIT Trichy



Date: 01/04/2023

DAY 6: Session 2 Date: 01/04/2023

Speaker: Mr. Ravindranath K, Research scholar NIT Trichy

Topic: Biomedical Signal Processing using R, hands-on approach Schedule: 11 AM to 12.45 PM



Day 4 Session 2

Date: 01/04/2023 Time

Time: 11 PM to 12.45 PM

BY Ravindranath K

Mr. Ravindranath K Research Scholar – NIT Trichy

Biomedical Signal Processing using R, Hands-on approach





DAY 6: Session 3
VALEDICTORY FUNCTION

Schedule: 1 PM



Day 6 Session 3

Date: 01/04/2023

Time: 1.30 PM to 3.30 PM

Valedictory function and Certificate distribution



Date: 01/04/2023

Feedback Questionnaire

Six Day FDP ON "R PROGRAMMING AND ITS APPLICATIONS"

01-04-2023 Day 6 Session 1 (9:00AM to 10:30AM):

Mr. Ravindranath, PhD scholar NIT Trichy Biomedical signal processing using R
hsprashantha@ksit.edu.in (not shared) Switch account
* Required
Participant Name*
Your answer
College Name *
Your answer
Email -ID
*
Your answer
Mobile Number *
Your answer
1. How would you rate the session? Was the topic relevant? *
Strongly Agree

Agree Strongly Disagree Disagree

2. How would you rate the level and amount of information provided?

*

Too Much About Right Not Enough

3. The information and skills presented were relevant and useful.

*

Strongly Agree Agree Strongly Disagree Disagree

- 4. How would you rate the resource person? The resource person was knowledgeable, clear and professional:
- *

Strongly Agree Agree Strongly Disagree Disagree

5. How would you rate the activities?

*

Excellent Very Good Good Poor

Comments/Suggestions*



Submit Clear form

Assessment questions

K. S. INSTITUTE OF TECHNOLOGY

Department of Computer Science & Engineering

hsprashantha@ksit.edu.in (not shared) Switch account

* Required	
Assessment form of FDP	
"R PROGRAMMING & IT'S APPLICATIONS"	
Name of the Faculty*	
Your answer	
College*	
Your answer	
Email id*	
Your answer	
1. Functions are defined using the	directive and are stored as R objects.
b) funct	
c) functions	
d) fun *	
A B C D	
2. Point out the wrong statement?	
a) Functions in R are "second class objects"	
b) The writing of a function allows a developer to c	reate an interface to the code, that is

explicitly specified with a set of parameters
c) Functions provides an abstraction of the code to potential users
d) Writing functions is a core activity of an R programmer*
A B C D
 3. Which of the following is used for reading tabular data? a) read.csv b) dget c) readLines d) writeline*
A B C D
 4. Which of the following will add the title "R language" to the graph? a) titleAdd("R language") b) title("R language") c) titleBar("R language") d) var(x, na.rm=TRUE)*
A B C D
 5. Which are indexed by either row or column using a specific name or number? a) Datasets b) Data frames c) Data d) Functions*
A B C D
6. What is the R function used to generate a matrix?*

Your answer
7. What is the function of rbind and cbind in R programming?*
Your answer
8. Consider the code
x<-9
seq(1,x,x/3) what is the output?*
Your answer
9. Consider a situation where we need to find the sum of the first n squares using a loop. Write an R code to perform this using vector based programming *
Your answer
10 . What is the function of commands sapply and lapply?*
Your answer
11. Write a simple R code to find the roots of quadratic equation?*
Your answer
12. What is the function used to find what packages are available for loading?*
Your answer
13. What is the R function used to find the remainder from divison?*
Your answer

15. What is the function used t	to find the inverse of a matrix?*	
Your answer		
	Submit	
Les less		-/1- 0
Event Coordinator	HOD	Principal
over coordinator		PRINCIPAL
	K.	S. INSTITUTE OF TECHI BENGALURU - 560 10



(APPROVED BY AICTE NEW DELH): AFFILIATED TO VTU. BELAGAVI, KARNATAKA)

(ACCREDITED BY NBA : CSE, ECE & MECH ENGINEERING)

(ACCREDITED BY NAAC)

#14. RAGHUVANAHALLI, KANAKAPURA ROAD, BENGALURU - 560109

Certificate of Participation

This is to certify that

Ms. Namyapriya Dayananda, Assistant Professor, K S Institute of Technology

has participated for the 6-Days Faculty Development Program on

"R PROGRAMMING AND IT'S APPLICATIONS"

organized by Department of COMPUTER SCIENCE & ENGINEERING
in association with IQAC

from 27" March to I" April 2023

Dr. Prasantha H S CONVENER Prof., Dept of CSE Dr. Rekha B Venkatapur Professor & Head, CSE Dept

Dr. Dilip Kumar K Principal / Director, KSIT



(ACCREDITED BY NBA : CSE, ECE & MECH ENGINEERING) UVANAHALLI, KANAKAPURA ROAD, BENGALURU

Certificate of Participation

This is to certify that

Mrs. Rashmi H. Assistant Professor, K.S. Institute of Technology

has participated for the 6-Days Faculty Development Program on

"R PROGRAMMING AND IT'S APPLICATIONS"

organized by Department of COMPUTER SCIENCE & ENGINEERING in association with IQAC

from 27" March to 1" April 2023

Prof., Dept of CSE

~ wew apu Dr. Rekha B Venkatapur Professor & Head, CSE Dept

Principal / Director, KSIT



(APPROVED BY AICTE, NEW DELHI; AFFILIATED TO VTU, BELAGAVI, KARNATAKA)

(ACCREDITED BY NBA : CSE, ECE & MECH ENGINEERING)

(ACCREDITED BY NAAC)

#14, RAGHUVANAHALLI, KANAKAPURA ROAD, BENGALURU - 560109

Certificate of Participation

This is to certify that

Mrs. Ramanjinamma, Assistant Professor, K.S. Institute of Technology

has participated for the 6-Days Faculty Development Program on

"R PROGRAMMING AND IT'S APPLICATIONS"

organized by Department of COMPUTER SCIENCE & ENGINEERING in association with IQAC

from 27" March to 1' April 2023

Dr. Prasentha H S CONVENER Prof., Dept of CSE Unmaraba

Dr. Rekha B Venkatapur Professor & Head, CSE Dept Dr. Dilip Kumar K

Principal / Director, KSIT



(APPROVED BY AICTE, NEW DELHI; AFFILIATED TO VTU, BELAGAVI, KARNATAKA)
(ACCREDITED BY NBA : CSE, ECE & MECH ENGINEERING)
(ACCREDITED BY NAAC)
#14, RAGHUVANAHALLI, KANAKAPURA ROAD, BENGALURU - 560109

Certificate of Participation

This is to certify that

Dr. Vijayalaxmi Mekali Associate Professor, KSIT

has participated for the 6-Days Faculty Development Program on "R PROGRAMMING AND IT'S APPLICATIONS"

organized by Department of COMPUTER SCIENCE & ENGINEERING
in association with IQAC

from 27th March to I' April 2023

Dr. Prasantha H S CONVENER Prof., Dept of CSE Dr. Rekha B Venkatapur Professor & Head, CSE Dept

Dr. Dilip Kumar K Principal / Director, KSIT



Kammavari Sangham (R)-1952

K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT

ON

THE JOY COMPUTING PYTHON

Date: 01-1-2023 to 1-4-2023

I, Mrs. Pallavi K N , Assistant Professor, Department of CSE .KSIT completed 12 weeks Faculty Development Programme on —The Joy of Computing using Python" organized by NPTEL-AICTE from Jan – April 2023

All India Council for Technical Education (AICTE) the statutory body and a national-level council for technical education, under Department of Higher Education, Ministry of Human Resource Development and NPTEL online certification courses are approved for Faculty Development Programme (FDP) by AICTE.

NPTEL MOOCs - AICTE FDP Equivalence

- NPTEL is already conducting Advance and Basic Level courses through MOOCs (Massive Open Online Courses)
- A large number of Advance Level Courses are being offered by NPTEL. These are 1 credit, 2 credit and 3 credit courses.
- Since MOOCs (Massive Open Online Courses) of NPTEL are not full time like regular FDPs, it is decided that its equivalence to regular FDP shall be considered as under.

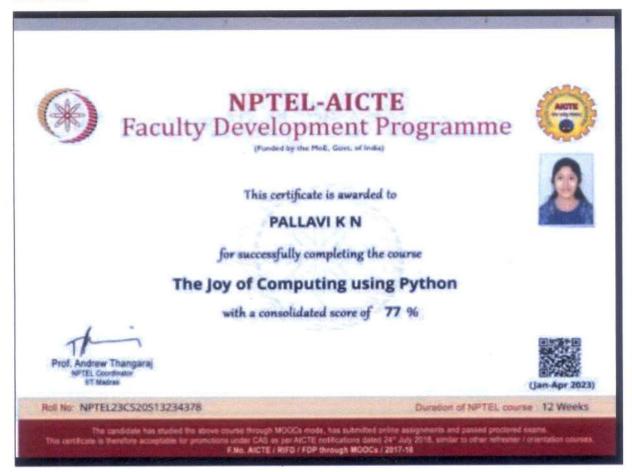
S.No	No. of weeks of NPTEL Courses	No. of lectures per week	Total No. of Hrs. of engagement	Equivalence of NPTEL course with regular FDP
1	4	3	.12	½ FDP of one week
2	8	3	24	Full FDP of one week
3	12	3	36	1½ FDP



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

Certificate:



SUBMITTED BY: Mrs. Pallavi K N

SIGNATURE OF FACULTY

HOD

Dept. of the Department Dept. of Computer Coloride & Engl K.S. Institute of Technology Bengaluru - 560 109 PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 109.



Kammavari Sangham (R)-1952

K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT ON

ADVANCED TOOLS AND TECHNIQUES FOR BEST RESEARCH

Venue: RVITM (Online)

Date: 26-09-2022 to 30-09-2022

I, Mr. Somasekhar T, Assistant Professor, Department of CSE KSIT attended a Five Days Faculty Development Programme on "Advanced Tools and Techniques for Best Research" at RVITM, Bengaluru on 26th to 29th September 2022.

Brochure:



RV Educational institutions

RV Institute of Technology and Management 8
Bangalore – 560076

Department of Information Science Engineering

Event Name	ADVANCED TOOLS AND TECHNIQUES FOR BEST RESEARCH
Theme	Practicing Tools for doing research activities
Date	26 th September 2022 to 30 th September 2022(5 Days)
Venue	Online



The FDP aims at deliberation, sharing knowledge to the target audience about the significance of research skills and ethical research practice by subject matter experts with practical exposure to faculty members and research scholars. This FDP provided the participants with an opportunity to acquire knowledge about contemporary developments that are taking place in various dimensions of research practice and inculcate and enhance the abilities of the faculty members to carry out independent research, write successful research projects, and finally to enable them for the technical communication considering national/international



Kammavari Sangham (R)-1952

K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

FDP REPORT

ON

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE IN IMAGE ANALYSIS

Venue: CMRIT Date: 13-2-2023 to 17-2-2023

I, Mrs. Pallavi R, Assistant Professor, Department of CSE .KSIT. attended Five Days Faculty Development Programme on "Artificial Intelligence and Data Science in Image Analysis" organized by Department of Electronics and Communication Engineering, CMR Institute of Technology from 13th February – 17th February 2023.

Brochure:

ORGANIZING COMMITTEE:

Shri, K C Ramamurthy Charmas, CMRGI

Dr. Sabitha Ramamurthy President, CMRIT.

Shri, K.R. Jayadeep CEO, CMRGI

ADVISORY COMMITTEE: Dr. Sarriay Jain,

Dr. B ,Narasimha Murthy, Vice-Principal, CMRIT

CONVENER:
Dr. Elumalai R, HOD-ECE, CMRIT

Programme Coordinator
Dr. Kavitha.D,
Assestant Prof fice Dops. CMRIT Bong.

RESOURCE PERSONS

1. Dr. B. Satyanarayana, Ph. D. Scienutic Officer (H),
Tata Institute of Fundamental Research, Mumbai.

2. Dr. Kirubai, Data Scientiat, Elpis Tr. adultions PVT
LTD., Hangalore.

3. Mr. Gaurav Adke, Data Scientist, Michelin Tyres,
Pone.

Der Cause Value
 Andreas Institute of Technology
 (MIT Campus), Chennai
 Dr. S. Geetha, Professor, VTT, Chennai
 Dr. Sudhakar M. S., VTT, Vellore
 Dr. Lavanya, SRM Institute of Technology,
 Chennai
 Dr. P. Palavi adice, PCCOER, Pune

"Artificial Intelligence and Data Science in Image Analysis"

For Faculty, Research Scholars & Industry person

13/02/2023 to 17/02/2023



Organized by
Department of Electronics and Communication
Engineering.
CMR Institute of Technology, Bengahuru-560037



- Content
 Fundamentals, applications, recent trends & challenges in Image Processing & Computer Vision
 Fundamentals of AI and Data Science
 Data science and its applications
 Image Enhancement using Deep Learning Techniques
- Image Enhancement using Deep Learning Techniques Natural Language Processing and its basics
- Applications of Natural Language Processing in Image Analysis (Hands-

- Only
 Human Brain image and pattern analysis using machine learning techniques.
 Explainable Artificial Intelligence.
 Introduction to Reinforcement learning and its application in image domain Generative. Adversarial Network (GAN) for Images (with hands on MNIST dataset).
 ML and DL algorithms for medical images.

Registration Details

Registration Amount: 300/-

Name of the Account holder: The Principal Name of the Bank and Branch:BANK OF INDIA IFS Code: BKID0008434 SB A/c Number: 843410110000242 Address of the Bank AECS Layout Branch, CMRIT, ITPL Road, Bangalore 560037

Participants interested in attending FDP ca-complete the registration form along with the registration fee copy on or before 30th January 2023.

https://forms.gle/c5vpThcAJDSeYfsW9

Point of Contact Dr. Kavitha.D. - 9538792426 AP. ECE, CMRIT kavitha.d@cmrit.ac.in



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

About FDP

In response to the growing demand for expertise in Artificial Intelligence (AI) and Data Science, particularly in the context of image analysis, CMRIT organized a Faculty Development Programme (FDP). This FDP aimed to equip faculty members with the knowledge and skills necessary to integrate AI and Data Science techniques into the curriculum, conduct cutting-edge research, and foster collaborations with industry partners. This report provides an overview of the FDP conducted at CMRIT, highlighting its objectives, key components, outcomes, and impact on faculty members and the institution.

The Faculty Development Programme on Artificial Intelligence and Data Science in Image Analysis conducted at CMRIT has been instrumental in bridging the gap between academia and industry, empowering faculty members to embrace cutting-edge technologies and methodologies. By fostering competence, curriculum development, research, and industry collaboration, the FDP has positioned the institution to nurture a future-ready workforce capable of driving innovation and societal impact in image analysis and related fields. Continued investment in faculty development initiatives focused on emerging technologies is essential to ensure the sustained growth and relevance of engineering education in the digital age.



Kammavari Sangham (R)-1952

K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

Certificate:



SUBMITTED BY: Mrs. Pallavi R

SIGNATURE OF FACULTY

Mencalabo

HOD

Head of the Department

Control Computer Science & Engg

K.S. Insultate of Technology

Bengaluru - 560 109

PRINCIPAL

PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109



Kammavari Sangham (R)-1952 K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science& Engineering

FDP REPORT

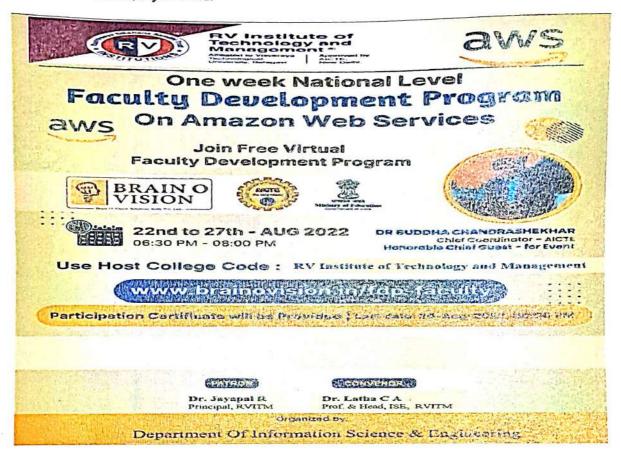
ON

AMAZON WEB SERVICES

Venue: RVITM

Date: 22-08-2022 to 27-08-2022

I, Mrs. Geetha R, Assistant Professor, Department of CSE .KSIT, attended One week Faculty Development Programme on "Amazon Webb Services" organized by Department of ISE, RV Institute of Technology at RVITM, Bangalore on 22nd to 27th August 2022 in Association with BrainOvision, Hyderabad.



About FDP

In an era marked by rapid technological advancements, educators play a pivotal role in preparing students for the challenges and opportunities of the digital age. In Cloud computing has emerged as a transformative force, revolutionizing the way businesses operate and accelerating innovation across industries. Recognizing the importance of equipping faculty



Kammavari Sangham (R)-1952

K.S.INSTITUTE OF TECHNOLOGY

Department of Computer Science Engineering

members with the knowledge and skills to leverage cloud technologies effectively, a Faculty Development Programme (FDP) on Amazon Web Services (AWS) was organized. This FDP provides an overview and its significance in enhancing pedagogical practices and fostering innovation in education.

The Faculty Development Programme on Amazon Web Services has emerged as a catalyst for educational transformation, empowering faculty members to embrace cloud technologies and innovate in their teaching and research endeavours. By equipping educators with the necessary knowledge and skills, the FDP has positioned academic institutions to nurture a future-ready workforce capable of driving digital innovation and sustainable growth.

Certificate:



SUBMITTED BY: Mrs. Geetha R

SIGNATURE OF FACULTY

~ man

HOD

Dept of Computer Science & Engg K.S. institute of Technology Bengaluru -560 109 PRINCIPAL --- PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

FDP REPORT

ON

"Developing and Deploying spring boot microservices on Kubernetes cluster"

Date: 22/08/2022 to 26/08/2022

Venue: Ramaiah Institute of Technology

Dr. Deepa SR, Professor and HoD, Department of CS&D, KSIT attended an FDP on Developing and Deploying spring boot microservices on Kubernetes cluster Organized by Department of Computer Science and Engineering, Ramaiah Institute of Technology, Bengaluru from 22/08/2022 to 26/08/2022.

RAMAIAH INSTITUTE	CHIEF PATRONS Dr. M. R. Jayaram, Chamman, GEF	RAMAIAH
OF TECHNOLOGY (Autonomous Institute, Affiliated to VTU)	Nri. M.R. Seetharam, Vice Chairman, GFF Nri. M. R. Ramaiah, Seetslay, GEF Sri. B. S. Ramaprasad, Chief Executive, GFF Dr. N.V. R. Naldu, Principal, Ramach Institute of Technology	PISTITUTE OF TECHNOLOGY
Five Days Faculty Development	Dr. Annapurns P Patil, HaD CSL, RIT	Five Days Faculty Development
Programme on	ORGANIZING COMMITTEE	Programme on
	Dr. J Geetho Chandrika P	Programme on
"Developing and Deploying spring boot	Pramed S Dr. Sevenya B J	"Developing and Deploying
microservices on Kubernetes cluster"	Dr. Sangeetha V TOPICS	spring boot microservices on
interoservices on Kubernetes cluster	Overview of microvervices and its architecture	Kubernetes cluster
2224 248	Preparing the Environment	Kubernetes cluster
22nd to 26th August 2022	Introduction to Spring Boot for microservices and building microservices with Spring Boot	Organized by the Department of
	Communication between two or more microservices through REST	Computer Science and Engineering
REGISTRATION FORM	services (setting up Eureka service and two or three services)	Company to the Engineering
	Mucking and Testing service by using Mocikto and Junit Connecting spring microservices with a database.	
Name	Introduction Dockers, containers and Dockerfile	RAMAIAH INSTITUTE OF TECHNOLOGY
	Kuhernetes concepts- pod's, replica sets and deployments with	(Autonomous Institute, Affiliated to VTU)
Designation Dept	simple exercises 2 Configuring a REST API and deploying it on Kubernetes as a	MSR Nagar, MSRIT Post, Banquiore-54, Karnutaka, rxina
	microscrutee	Phone Numbers : +91 80 23603123, 23603120,
Institution:	. Ways to run applications on the deployed Kubernetes environment	23600822, 23606934, 23606936
	and access the deployed applications SPEARERS	Fax +91 80 23603124
Address	Industry Experts from CISCO, Micro Focus, HPE, IBM & Gougle.	Web: www.msrit.edu
	CSE Faculty from RIT	
Phone:	IMPORTANT DATES	
	Last Onte of Online Registration: 17-08-22 Registration Link:	
ACCURATE TO SECURE	https://forms.gle/qt/S21951gCXeKJFA	15 15 15 15 15 15 15 15 15 15 15 15 15 1
Mobile No.	Spot Registration also available if seats are available	THE RESERVE OF THE PERSON NAMED IN
		THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS
Email ID	The same of the sa	
	-(-):	Technical Partners
		REPORT PORCES COME
		DUI LOUI LO
	Gent A	CISCO
Signature of Applicant Signature of Princered	The second secon	
Signature of Applicant Signature of Principal		

About the FDP:

The Faculty Development Program on Developing and Deploying Spring Boot Microservices on Kubernetes Cluster was conducted with the aim of equipping faculty members with the essential skills and knowledge to leverage modern technologies in software development and

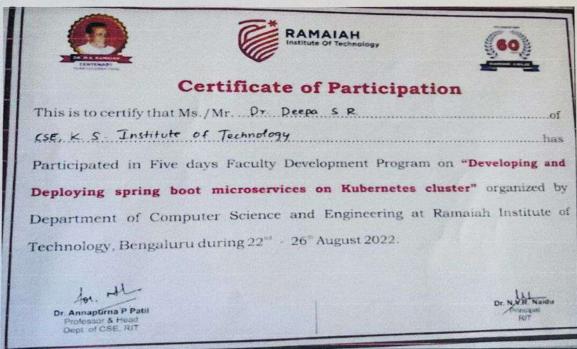
deployment. The program focused on utilizing Spring Boot for building microservices and deploying them on a Kubernetes cluster, which is a widely adopted container orchestration platform.

Objectives of the FDP are highlighted as below:

- 1. To familiarize faculty members with the concepts of microservices architecture.
- 2. To provide hands-on experience in developing microservices using Spring Boot.
- 3. To introduce Kubernetes as a platform for container orchestration.
- 4. To enable participants to deploy Spring Boot microservices on a Kubernetes cluster.

Submitted by:

[Dr. Deepa SR]



SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

FDP REPORT

ON

R programming and its Applications

Venue: KSIT Date: 27-03-2023 to 01-04-2023

Mrs. Sushma A. Assistant Professor, Department of CS&D, KSIT attended a FDP on R programming and its Applications Organized by Department of Computer Science and engineering at K S Institute of Technology, Bengaluru from 27-03-2023 to 01-04-2023

Established in 2000, the UMR Institute of Technology Established in 2000, the CARK institute of Technology imparts quality, pragmatic education in engineering and management to fielp students hone their analytical abilities and develop their creative thinking skills. CMRIT meets the rapidly growing need for technology professionals by nurturing young minds in an innovative and progressive learning environment. Situated in the very heart of South India's IT corridor, the CMRIT campus in Whitefield, Bengaluru is centrally located, well connected and easily accessible.

At CMRIT, we are dedicated to holding aloft the flame of Sri Chikka Muniyappa Reddy's dreams. Towards this end, we are committed to promoting Towards his erad, we are committee to personaling technical education as a catalyst to the growth and development of the country and society at large. With world-class infrastructure and experienced faculty, CMR Institute of Technology is the preferred destination for technocrats and managers who wish to

About Department
The Department of Electronics and Communication Engineering was started in the academic year 2000-2001. The Department offers an undergraduate programme in the field of Electronics and Communication Engineering for which the student intake is currently 240 and postgraduate program MTech in VLSI design and embedded systems for which the student intake is currently 24. The Department of Electronics and Communication Engineering is approved by the All India Council for Technical Education (AlCTF), and is permanently affiliated to Visivesvariaya Technological University (VTU), Belgaum in Kurnaraka. The National Board of Accreditation, New Delhi accredits the Department. The Department has established a Research Centre under VTU to facilitate research activities for both faculty and students. Students may also opt to pursue an M.S. through the research programme. an M.S. through the research programme

ORGANIZING COMMITTEE:

Shri, K.C. Ramamurthy Chienen, CMRGI

Shri, K.R. Jayadeep CEO, CMRGI

ADVISORY COMMITTEE:

Principal CMRIT

Br. B Narasimba Murthy, Vice-Principal, CMRIT

CONVENER: Dr. Elumatai R. BOD-FCT, CMRIT

Programme Coordinator

Dr. Kavitha.D.

Assistant Prof. ECE Dept, CMRII Bangalore

- RESOURCE PERSONS

 1. Dr. B. Satyanarayana, Ph. D. Scientific Officer (H),
 Tata Institute of Fundamental Research, Mumbai,
 2. Dr.Kiruba, Data Scientist, Elpis IT solutions PVT
- 3. Mr. Gauray Adke, Data Scientist, Michelin Tyres,
- 4. Dr. G. Kavitha, Madras Institute of Technology
- (MIT Campus), Chennai. 5. Dr.S. Geetha, Professor, VIT, Chennai. 6. Dr. Sudhakar M.S., VIT, Velfore
- Dr.Lavanya, SRM Institute of Technology,
- 8. Dr. Pallavi adke, PCCOER, Pune

5 DAYS online FACULTY DEVELOPMENT PROGRAM (FDP)

"Artificial Intelligence and Data Science in Image Analysis'

For Faculty, Research Scholars & Industry person

13/02/2023 to 17/02/2023



Organized by Department of Electronics and Commu Engineering.

CMR Institute of Technology, Bengaluru-560037



CHIEF PATRONS

Sri R. Rojagopal Naidu Sri R, Leela Shankar Roo

Sri T.Neerajakshulu Naidu

PATRONS

Dr. K.V.A. Balaji

Dr. Dilip Kumar K

ORGANISING CHAIR

Dr. Reicha B Venkatapur Professor & Head of the Department Computer Science & Engineering, 1995

CONVENERS

Dr. Proshantha HS

Mr. Kushal Kumar B N

2341

ORGANISING COMMITTEE

Mr. Harshavardhan J R

Dr. Vijayakaxmi Mekati

Mr. Sanjay Das

Mr. Roopesh Kumar B N

Mr. Kumar K

COLUMN COSE NOT

Mr. Raghavendrachar S

Mr. Krishna Gudi

Mr. Prashanth H S

Mrs. Beeno K

Mr. Manoj Kumar S

Mrs. Pollovi K N

Mrs. Roshmi H CSI KIT

Mrs, Kavya M S

Mr. T Somosekhar Assessant Professor CSE, KSD

Mrs. Supreetha Ganesh Mrs, Pallavi R

Mr. Laxmillanth BOY COSE, KISET

Ms, Namyapriya D Assistani Professor Ci or CSE KEN

Mrs, Ramanjinamma G K COSE WEST

TOPICS TO BE COVERED IN FOR

- Mathematical Prefiningness Data science and Big data & Hands-on session
- Data Science using R programming & Hands-on session
- Machine learning using R. Machine learning using R examples & Hands-on session.
- Image Processing using R, Image Processing using R examples
- · Moni Project











Six Days Faculty Development program

R PROGRAMMING & IT'S APPLICATIONS

27th March to 1st April 2023

K S INSTITUTE OF TECHNOLOGY, Bengalura



Department of Computer Science & Engineering



The Karmavan Sangtions a reds-activity non-profit overned visitarion sense organization was established in the year RIS with the side case of providing of entocks service to community and widely The Bangham has diversaling its activities since its establishment over new decodes pagewith a time belief that quality and meaningful edicate not very can tay the strong transforces for prograp about expensive and social oberiges to the lives of moneonsti, line Singhorn want spout establishing couldoral institutors starting with CS. Polytocksic in this Employed way the nucleus of automy non-technical educa-Non-the Sangham moved forward start nights 8.5. From the of Section . against the year think, is School of Engineering & Inchagement (KOSEAL) in the year 2010, 9, 5, School of Apprehensive INSSAL in the year 2015 E.M. S. PU College in 2002, In the following years these webbusiness hits parised for thermelies on envisite rache triplegh anademic seculation ochaved in a very stron span of time, by providing free noted accommoducion and scholarship to the deserving stude the community is not humbered by commissions to education,

ABOUT THE INSTITUTION

x, 5, Paperte or technology was estudiated in the year PHY by the or Sangtrum with a currentment to provide make brailed sechnical education, xill is strategically bounted at the in Regime andhalf tabakaspura Main Road Sergalats. The treatation has modern eventuality with trave-of-the art equipment and Encoratory for Times. well result their forcelly and an organism phasement record. The rispertwo of self-alto impair quality education to students and entitle them to diselve the dialoss of problem solving meaning and CHARGE BY A they Characters, Sell, KAT II NAME, CONTROLLS.

ABOUT THE DEPARTMENT

The Department of Computer science and Engineering is established in the year limit and others B.E. Musich in CSE and dischase His & one by Fo. 5 solution. The dypotoment is set \$10 occupation, it has well explored agreement and comparted highly to provide exchange Palistry turns economics to modern. The infrastructure fulfills and supports borning sells on the lottest rechnology in the industry. Our on it to develop professionals were social renormables to become beaness in transaction removings and also tractions consumentates with good arrios. It has several active professional backet mornouroups live CR 4195 EST cod 10 where scudents from to do projects, present of an electric score respectively advertising from higher area. and kildership qualities. The students with privile in madelshipse-shit Conservan Topicatrion and presented papers in time national Confer-

ABOUT THE FOR

Freevillare and Open Source Software (FLOSS) - a well argon and supremises passage - that has freeze data analysis, mostling interespect testing, and following by a case the other men of the creating new function community to solve statistical problems. It came on a variety of UNIX platforms land similar misseries such as open-special languages for analytics and data science. The cross-platform compatibility of Riona to capacity to handle large one consider dono sea inches it on load sold for occidence in a unabate data in their lates.

A can be used for simple calculations, matrix calculations, differential equations expression statistical analysis already graphs are, the it is useful for anybody who withes to undertake witerave intentional notions and data visual ration. Radlews you to develop mater Anthoral Intelligence Appellandings numerous packages that are used in the field of ML, Also, R programming is a prescribed course for artical schemics and allers bronzings are per-

METHODOLOGY OF THE FOR

The workings will be conducted using expects him led on addressing powering bosons applications with transfers sensing

BENEFITS OF THE FOR anamatical completes the workshop per repeated with the order

- Learn basic R programming
 Learn basic mathematical prefirmanies
 Learn has no obstaces standard analysis using R
 Learn has to use R for ML and Image Processing applicant
- Certificate for ottending a days FDR



mobil for Foculty of Engineering Deck.

₹500/-

20-03-2023 (Limited Participants)

Scan Here For





Span Here For

Registration

RECESTRATION FORM (Offline Mode	
Name	
Designation	
Department	
Department	
Institution	
Address	
Mon No.	
Moto No.	
Emoil	
Dore	
Date	
Registration 500 Rs	
Correct Detrole For Swigarinten	Samuel of Acut cont.
Managatinax 8: 99/98 (2369	
Businal Kurnar & to 190000 55905	
Carried March 1985	Supramore & Sector

About FDP

The FDP on R Programming offers participants a comprehensive understanding of R, a powerful programming language widely used in data analysis, statistics, and visualization. Through expert-led sessions and hands-on exercises, participants will gain proficiency in R programming fundamentals, data manipulation, statistical analysis, and data visualization techniques. The FDP aims to equip participants with practical skills to analyze data, interpret results, and communicate findings effectively.

During this FDP participant will understand

Participants will be proficient in utilizing R for various research and analytical tasks, empowering them to apply their knowledge in academic research, industry projects, and beyond.

SUBMITTED BY: SULP



K.S. INSTITUTE OF TECHNOLOGY

(APPROVED BY AICTE, NEW DELHI; AFFILIATED TO VTU, BELAGAVI, KARNATAKA (ACCREDITED BY NBA : CSE, ECE & MECH ENGINEERING)

(ACCREDITED BY NAAC)

#14, RAGHUVANAHALLI, KANAKAPURA ROAD, BENGALURU - 560109

Certificate of Participation

This is to certify that

Ms. Sushma A, Assistant professor, K S Institute of Technology

has participated for the 6-Days Faculty Development Program on "R PROGRAMMING AND IT'S APPLICATIONS"

organized by Department of COMPUTER SCIENCE & ENGINEERING
in association with IQAC

from 27th March to Ist April 2023

Dr. Prasantha H S
CONVENER
Prof., Dept of CSE

Dr. Rekha B Venkatapur Professor & Head, CSE Dept

Dr. Dilip Kumar K Principal / Director, KSIT

ty: Investigate

Notes

19

SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109



#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENTOFCOMPUTER SCIENCE AND DESIGN

FDP REPORT

ON

"Artificial intelligence and Data Science in Image Analysis"

Venue: CMRIT Date: 13-02-2023 to 17-02-2023.

Mrs. Surekha Byakod, Assistant Professor, Department of CS&D, KSIT attended a FDP on "Artificial intelligence and Data Science in Image Analysis" Organized by Department of Electronics and Communication Engineering at CMRIT, Bengaluru from 13-02-2023 to 17-02-2023.

About the FDP:

Artificial intelligence (AI) and data science play integral roles in image analysis, revolutionizing how we interpret, process, and extract insights from visual data.

SUBMITTED BY: [SUREKHA BYAKOD]

CMRIT
CAM INSTITUTE OF TECHNOLOGY BANGALURU.
CREGITED VITA AF CARCE STAGAS

CREGITED VITA AF CARCE STAGAS

CMR Institute of Technology
#132, AECS Layout, ITPL Main Road, Kundalahalli, Bengaluru - 560037
Certificate of Participation

This is to certify that

Surekha Byakod

has attended the 5 DAYS online FACULTY DEVELOPMENT PROGRAM (FDP) on "Artificial Intelligence and Data Science in Image Analysis"

Conducted by Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 13th February to 17th February 2023

Squilte

Coordinator

R. Edunala:

HoD, Dept. Of ECE

Principal

SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

FDP REPORT

ON

"Entrepreneurship Development"

Venue: K.S. School of Engineering and Management Date: 12/12/2022 to 16/12/2022

Mr. S. Subhash Kumar, Assistant Professor, Department of CS&D, KSIT attended an FDP on Entrepreneurship Development Organized by Department of Management Studies, K. S. School of Engineering and Management, Bengaluru from 12/12/2022 to 16/12/2022.



About the FDP:

The Faculty Development Program on Entrepreneurship Development aimed to empower faculty members with the knowledge and skills necessary to foster an entrepreneurial mind-set among students and promote entrepreneurship within the academic community. The program focused on various aspects of entrepreneurship, including idea generation, business planning, financing, and marketing strategies.

Objectives:

- 1. To familiarize faculty members with the fundamentals of entrepreneurship.
- 2. To provide insights into the entrepreneurial ecosystem and its components.
- 3. To equip participants with tools and techniques for nurturing entrepreneurship among students.
- 4. To explore innovative approaches to teaching entrepreneurship in the classroom.
- 5. To facilitate networking and collaboration among faculty members interested in entrepreneurship education.

Submitted by:

[Mr. Subhash Kumar]



SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FDP on Artificial Intelligence and Machine Learning for Image Analysis-MATLAB &Python Perspective

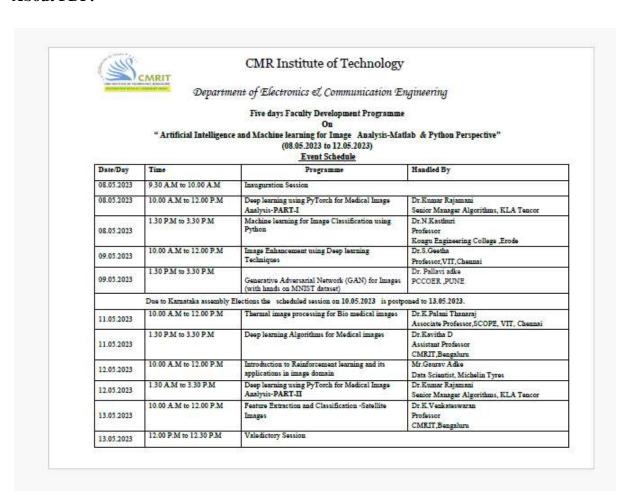
Organized by CMRIT, Bengaluru

Duration:08-05-2023 to 13-5-2023

The following faculties has attended the above mentioned FDP.

- 1. Mrs. Suma Santosh.
- 2. Mrs.Bhanumathi A.
- 3. Mrs. Anita P.
- 4. Mrs.Kavya B M

About FDP:



Artificial Intelligence (AI) and Machine Learning (ML) have transformed image analysis, offering robust tools for tasks like object detection, segmentation, and classification. From both MATLAB and Python perspectives, these languages provide comprehensive environments tailored for image processing and ML tasks. In MATLAB, the Image Processing Toolbox offers functions for filtering, morphology, and feature extraction. The Computer Vision Toolbox facilitates object detection, tracking, and recognition. The Statistics and Machine Learning Toolbox enables classification, regression, and clustering tasks, while the Deep Learning Toolbox supports convolutional neural networks (CNNs) for advanced image analysis. Python, with libraries like Tensor Flow and Open CV, provides a powerful platform for image analysis and ML. Open CV offers extensive support for tasks like filtering and object tracking, while Tensor Flow and Keras enable the building and training of deep learning models, including CNNs for image classification and segmentation. Other libraries like PyTorch and scikit-learn further extend Python's capabilities for ML tasks. In summary, both MATLAB and Python offer powerful tools for image analysis and ML tasks, empowering researchers and practitioners to develop sophisticated algorithms and applications for diverse domains.

SIGNATURE OF THE STAFF

HOD - ECE



PROUDLY PRESENTED TO

Mrs. Suma Santosh

From the department of Electronics & Communication Engineering, KSIT, BANGALORE, for successfully completing the Faculty Development Programme on Artificial Intelligence and Machine Learning for Image Analysis - Matlab & Python Perspective organized by the Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 08-05-2023 to 13-05-2023.

Dr. R. Elumatai

HOD department of ECE CMRIT

Dr. Venkateswaran K Convenor



PROUDLY PRESENTED TO

Mrs. Bhanumathi A

From the department of Electronics & Communication Engineering, KSIT, BENGALURU, for successfully completing the Faculty Development Programme on Artificial Intelligence and Machine Learning for Image Analysis - Matlab & Python Perspective organized by the Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 08-05-2023 to 13-05-2023.

Dr. R. Elumalai

HOD department of ECE CMRIT.

Dr. Venkateswaran K Convenor



PROUDLY PRESENTED TO

Mrs. Anita P

From the department of Electronics & Communication Engineering, KSIT, BANGALORE, for successfully completing the Faculty Development Programme on Artificial Intelligence and Machine Learning for Image Analysis - Matlab & Python Perspective organized by the Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 08-05-2023 to 13-05-2023.

Dr. R. Elumalai
HOD department of ECE CMRIT

Dr. Venkateswaran K Convenor



PROUDLY PRESENTED TO

Mrs. Kavya B M

From the department of Electronics & Communication Engineering, KSIT, BANGALORE, for successfully completing the Faculty Development Programme on Artificial Intelligence and Machine Learning for Image Analysis - Matlab & Python Perspective organized by the Department of Electronics and Communication Engineering, CMR Institute of Technology, Bengaluru from 08-05-2023 to 13-05-2023.

Dr. R. Elumalai

HOD department of ECE CMRIT

Dr. Venkateswaran K Convenor

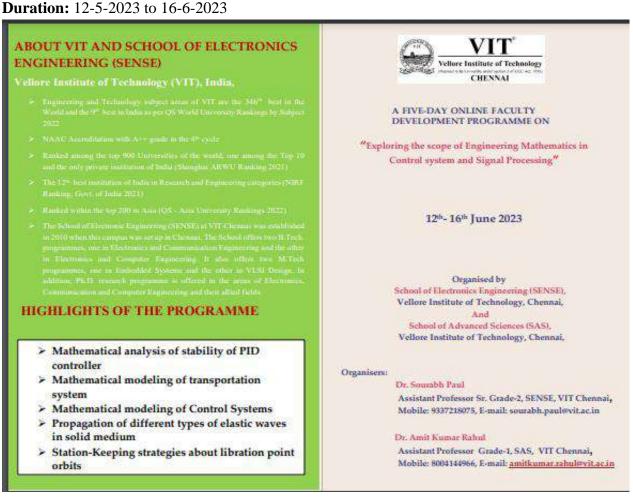


DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

Faculty Name: Mr. Saleem S Tevaramani

FDP on Exploring the scope of Engineering Mathematics in Control system and signal Processing

Organized by VIT Chennai



About FDP:

Exploring the scope of engineering mathematics in control systems and signal processing reveals a rich intersection where theoretical concepts translate into practical applications. Engineering mathematics forms the foundation for modelling dynamic systems, utilizing tools such as differential equations, linear algebra, and calculus. These equations represent

Mathematical techniques like Laplace transforms and state-space representation are instrumental in stability analysis and controller design. Signal processing heavily relies on mathematical tools for signal analysis, manipulation, and interpretation. Fourier analysis, convolution, and transforms such as Fourier and Z-transforms are fundamental in signal processing applications, including filter design and modulation schemes. Control system stability is assessed using mathematical techniques like eigenvalue analysis, root locus, and frequency domain analysis. Optimization methods are employed for system performance optimization, utilizing techniques like optimization algorithms and convex optimization. Feedback control theory relies on mathematical analysis of feedback loops, stability criteria, and controller design methodologies. Engineering mathematics continues to drive innovation in emerging technologies, including machine learning and artificial intelligence, enabling advancements in pattern recognition and autonomous systems. Engineering mathematics serves as the cornerstone for understanding, analysing, and designing control systems and signal processing algorithms, facilitating technological innovation across diverse fields.

Signature of the staff

HOD-ECE





Certificate of Participation

This is to certify that	nt Dr./Prof.Mr./Ms	Mr. SALEEM S TEVARAMANI	of
	KSIT		has
participated in the	5-day FDP "Exploring the	Scope of Engineering Ma	athematics in Control
System and Signal	Processing" organised by	School of Electronics	Engineering (SENSE)
from 12th to 16th J	June 2023 at Vellore Inst	itute of Technology, Chen	nai.

Souralh land. Dr. Sourabh Paul Coordinator

Dr. Amit Kumar Rahul Coordinator

Dr. Susan Elias Dean-SENSE

VIT - A place to learn; A chance to grow



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

5 Day FDP on the theme "Inculcating Universal Human Values in Technical Education"

Date and Time of FDP: 1st May to 5th May 2023

Organized by: All India Council for Technical Education (AICTE)

Through: Online

Scope and Objectives: This workshop is about living with fulfilment in our practical day-to-day life. Education is expected to facilitate this aspiration by helping the student to develop a holistic world view as well as the practical skills for living with fulfilment, i.e., living in harmony as an individual as well as with family, society and the natural environment.

Day 1: Introduction for value education

Need for Value Education

Content of Value Education: The value of an entity is its participation in the larger order of which it is a part. The context is always the larger order. Value has to do with the participation of a unit in the larger order. E.g. a piece of chalk is a unit. The classroom is the larger order for this unit. The value of chalk is that it can be used to write on the blackboard for the desired functioning of the classroom.



Understanding Natural Acceptance – the basis for Right Understanding

Right understanding obtained through self-exploration can be recognised as follows:

- a. It is assuring
- b. It is satisfying
- c. It is universal

Self-exploration is a process of seeing the reality on our own right, by our own investigation, observation and analysis. It is a process of dialogue between "what I am" and "what is naturally acceptable to me". It includes verifying the proposals on the basis of natural acceptance (which is not the same as acceptance) and validating experientially in living.

Exploring the Meaning of Happiness and Prosperity

Happiness is to be in a state of harmony. The expanse of our living is at four levels (individual human being, family, society and nature/existence), and thus the program for continuity of happiness is to be in harmony at all these levels. Prosperity is the feeling of having more than required physical facility.

Day 2: Understanding the Human Being (As Co-existence of Self and Body)

The Needs of the Self and the Body

The need of the Self is happiness (e.g. feeling of respect leading to happiness) while the need of the Body is physical facility (e.g. food). All the needs related to the Self are continuous in time while all the needs related to the Body are required for a limited time. This is one way we can differentiate between the need of the Self and the need of the Body.

The Activities of the Self and the Body

The Self has the activity of desire, thought and expectation which are continuous. On the other hand, any activity of the Body, like eating, walking, etc. is temporary in time.

The Response of the Self and the Body

The response of the Body is based on recognizing and fulfilling whereas the response of the Self is based on knowing, assuming, recognizing and fulfilling. The recognition and fulfillment of the Body is definite, while that of Self is determined by the activity of assuming. As assumption changes, the recognition and fulfilment by the Self also changes. The conduct of the human being basically depends

upon the response of the Self, as all decisions are made by the Self. Only with the assumptions set right,

i.e. assuming based on knowing (which is definite), can recognising and fulfilling be set right; and only

then, the conduct can become definite.

Day 3: Understanding Harmony in the Family

Feeling of Relationship as the Basis for Harmony in the Family

The harmony in the family has primarily to do with the fulfilment of relationship between one human being and the other human being. In order to fulfil relationship, it is necessary to understand relationship.

Feelings (values) in relationship:

- 1. Trust (foundation value)
- 2. Respect
- 3. Affection
- 4. Care
- 5. Guidance
- 6. Reverence
- 7. Glory
- 8. Gratitude
- 9. Love (complete value)

Relationship already exists – we don't have to create it; rather we only have to recognise and fulfil it. The family is the basic unit of human-human interaction. The basic issue in family is that of relationship. In relationship, there are nine feelings (values) that can be clearly understood and lived with. There is harmony in the family, mutual happiness in the family, when we understand the feelings and ensure in our living.

Respect is right evaluation at the level of the Self. The complete content of respect is to see that the other is similar to me in terms of purpose, programme and potential; and we are complementary to each

other in terms of competence. Over evaluation, under/otherwise evaluation and discrimination are disrespect.

The other feelings in relationship include affection, care, guidance, reverence, glory, gratitude and love. Love is the feeling of acceptance of all; it is the complete value. Justice is ensuring these feelings in oneself and expressing them to the other, leading to mutual happiness. Justice begins from family and extends to the world family, leading to undivided society.

Day 4: Understanding Harmony in the Society

Education is to develop right understanding of the harmony at all levels of being – from self to the entire

existence (individual, family, society, and nature/existence). And Sanskar is to develop the basic acceptances of the harmony at various levels.

At the level of society, the human goal is right understanding and right feeling (happiness) in every individual, prosperity in every family, fearlessness (trust) in society and co-existence (mutual fulfilment) in nature/existence. This goal is fulfilled by human order, i.e. systems for education-sanskar,

health-self regulation, production-work, justice-preservation and exchange-storage. These systems start

with the family order, and are interconnected right up to world family order, leading to universal

order. The natural process of development of a child in an environment of relationship needs to be understood and fulfilled so that the child grows into a human being who can have the competence to participate in the universal human order.

Day 5: Understanding Harmony in the Nature and Existence

Existence is co-existence, which is in the form of units submerged in space. Units are energised, they are self-organised and they recognise their relationship with other units and participate with them in a mutually fulfilling manner (except for human beings without right understanding).

Existence is co-existence, and the role of human being is to realise co-existence in the Self and live in co-existence in nature/existence, extending up to universal human order. In this way, the unfolding of the co-existence will be completed through human being – resulting into universal order:

Skunge

Report Submitted By

Shruthi V Joshi
Associate Professor
Department of ECE, KSIT

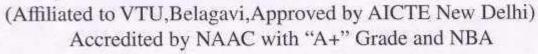
Dr. P N Sudha

Professor & Head

Department of ECE, KSIT



Bangalore Institute of Technology





Certificate of Participation

This is to Certify that Dr./Mr./Mrs./Ms. SHRUTI V JOSHI, KSIT bangalore Has Participated in the Five Day's Virtual Faculty Development Programme "Electrical Vehicle Technologies-A Future Transportation Tool" organised by Department of Electrical and Electronics Engineering from 28/11/2022 to 02/12/2022.

A) hay kumor D

Mr.Akshay Kumar D Co-ordinator

Mr.Suresh H Co-ordinator

Dr. Sudha G HOD

Dr J Prakash

Vice Principal

Dr Aswath M U Principal



K. S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Name: Mrs.Ramya K R

FDP on Electrical Vehicle Technologies -A Future Transportation Tool

Organized by BIT, Bangaluru

Duration: 28-11-2022 to 2-12-2022



About FDP:

Electric vehicle (EV) technology is poised to revolutionize transportation, offering a sustainable alternative to fossil fuel-powered vehicles. EVs utilize rechargeable batteries, producing zero emissions and reducing air pollution. Advances in battery tech have led to longer ranges and competitive performance. Charging infrastructure is expanding rapidly, with home, workplace, and public charging networks being developed. Government incentives are driving consumer adoption. Range anxiety is being addressed through battery

advancements. EVs contribute to grid stability through vehicle-to-grid (V2G) technology. Autonomous features enhance safety and convenience. They offer quieter operation and lower operating costs. Shared mobility services, such as electric ride-hailing, are expanding. The electrification of transportation plays a crucial role in mitigating climate change and reducing dependence on imported oil. EVs are driving innovation in materials science and manufacturing processes. Solid-state batteries promise further improvements. Fleet electrification and urban planning initiatives integrate EVs into transportation systems. Battery swapping offers quick alternatives to traditional charging. Incentives include tax credits and preferential parking. Continued investment in EV technology and infrastructure is essential for a sustainable transportation future.

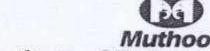
Signature of the staff

HOD - ECE









Institute of Technology & Science

ERNAKULAM, KERALA

Approved by AICTE and affiliated to APJ Abdul Kalam Technological University

DEPARTMENT OF ELECTRICAL & ELECTRONICS

CERTIFICATE OF PARTICIPATION

This is to certify that

Ramya K R

K S INSTITUTE OF TECHNOLOGY , BENGALURU

has successfully completed the National Level Faculty Development Programme on "Emerging Trends in Power, Energy and Control" conducted by the Department of Electrical & Electronics Engineering on 22nd - 27th August, 2022.

Dr. JANI DAS CONVENER

ATTA

Prof. NEELAKANTAN.P.C

Buse

Ms. BREEZA PAULOSE PROGRAM COORDINATOR



SIEMENS Ingenuity for life (APPROVEDBYA.I.C.T.EAFFILIATEDTOVTUBELGAUM)
#14,RAGHUVANAHALLI,KANAKAPURAMAINROAD,BANGALORE-560109

FDP REPORT

Faculty Name: Dr. P N SUDHA, Mrs. SANGEETHA V, Mrs. BHARGAVI ANANTH

FIDP Topic: The Challenges and Opportunities for Women in Science, Technology, Engineering amd Management (STEM)

Date and Place: 17/10/2022 - 22/10/2022, KSSEM(Department of Civil Engineering)Bangalore (HIYBRID MODE)

Resource Persons:

Samilaja P Vice President, Customer Delivery Head - Banking, TCS- Financial Solutions .

R. SobhaRtd PCCF & Head of Forest Force, Telangana Advisor, Govt of Telangana- Forestry Affairs

Sajit T C CHRO- BIAL & Board Director- KIAF

Dr. AlkaKulakarni Registrar, D Y Patil University

Amuradha S PrakashScientist, ISRO

Dr. PratimaKhandelwal Founder, Fly High (Educational Excellence Services), Bangalore

M. r. Nagesh Ramamurthy Practicing Consultant & Toast Master

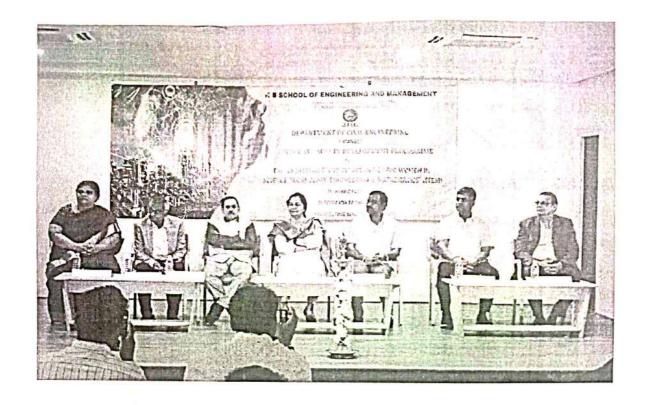
Der. Sapna Devendra Regional Manager, Ambuja Cements

Nandita Chakraborty Quality Head, Namma Metro

Are. Vedavathi Practicing Architect

The FDP threw light on the challenges faced by women in STEM and sensitize on the opportunities awailable for them. The speakers shared their experience with the audience on how to overcome the psychological and physiological barriers. This conference aimed at changing the mind-set of the policy makers, employers, colleagues, students and society at large. Gender equality will bring new perspective to the industry and provide better future for Indian women in STEM.

The FDP was very well planned. All the resource persons were knowledgeable. They gave insights into the opportunities women have in the field of science and technology. They even gave a lot of examples where women have changed the world with their smartness.



Signature of Faculties

Offero!

Signature of HOD



KAMMAVARI SANGHAM (R)-1952

KS SCHOOL OF ENGINEERING AND MANAGEMENT

(Approved by AICTE, Affiliated to VTU & Accredited by NAAC) #15, Mallasandra, Off. Kanakapura Road, Bangalore- 560109

DEPARTMENT OF CIVIL ENGINEERING

This is to certify that

Dr. P.N. Sudha, Professor, HOD-ECE,

KSIT

has participated as a delegate in the Five-Day Faculty Development Programme on The "Challenges and Opportunities for Women in Science, Technology, Engineering & Mathematics" (STEM) held between 17th to 21st

of October 2022

CONVENOR

PRINCIPAL 2

Mar

CHIEF EXECUTIVE OFFICER



KAMMAVARI SANGHAM (R)-1952

KS SCHOOL OF ENGINEERING AND MANAGEMENT

(Approved by AICTE, Affiliated to VTU & Accredited by NAAC) #15, Mallasandra, Off. Kanakapura Road, Bangalore- 560109

DEPARTMENT OF CIVIL ENGINEERING

This is to certify that

V. SANGEETHA ABBISTANT PROPESSOR

KSIT

has participated as a delegate in the Five-Day Faculty Development Programme on The "Challenges and Opportunities for Women in Science, Technology, Engineering & Mathematics" (STEM) held between 17th to 21st

of October 2022

CONVENDR

PRINCIPAL PRINCIPAL

Wans

CHIEF EXECUTIVE OFFICER



KAMMAVARI SANGHAM (R)-1952

KS SCHOOL OF ENGINEERING AND MANAGEMENT

(Approved by AICTE, Affiliated to VTU & Accredited by NAAC) #15, Mallasandra, Off. Kanakapura Road, Bangalore- 560109

DEPARTMENT OF CIVIL ENGINEERING

This is to certify that

BHARGAVI ANANTH ASSISTANT PROFESSOR

KSIT

has participated as a delegate in the Five-Day Faculty Development Programme on The "Challenges and Opportunities for Women in Science, Technology, Engineering & Mathematics" (STEM) held between 17th to 21st of October 2022

CONVENOR

PRINCIPAL 2

A Gurs

CHIEF EXECUTIVE OFFICER

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE DEPARTMENT OF ECE

Report on

AICTE TRAINING AND LEARNING(ATAL) ACADEMY SPONSORED FACULTY DEVELOPMENT PROGRAM (10* - 21*OCTOBER 2022)

"Artificial Intelligence and Machine Learning Techniques for Precision Agriculture" Organized by

JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU Week 1 - Online (7:00 PM - 9:30 PM)

Platform: Zoom

The Workshop started with Inauguration. The coordinator of workshop, Dr. Prabhdev Jagadish, Professor, JSSATE, Bengaluru welcomed the participants.

10/10/2022 Monday

6.45 PM - 8.00 PM: Session 1: Disruptive Innovations in Precision Agriculture

Dr. Adhinarayana, Professor, Centre of Studies in Resources Engineering, IIT Bombay

11/10/2022 Tuesday

7:00 PM - 8.00 PM: Session 2: Introduction to AI and ML

Dr. Millie Pant, Professor, Dept. of Applied Mathematics & Scientific Computing, IIT Roorkee 12/10/2022 Wednesday

7:00 PM - 8.00 PM: Session 3: Stress, Mental Health, and Yoga

Dr. Shivarama Varambally, Professor of Psychiatry & Head (I/c), Department of Integrative Medicine, NIMHANS, Bengaluru

13/10/2022 Thursday

7:00 PM - 8.00 PM: Session 4: AutoML

Dr. Manjunath S, Chief Engineer at Samsung Electro Mechanics, Bengaluru.

14/10/2022 Friday

7:00 PM - 8.00 PM: Session 5: Precision Agriculture through Technology Innovation

Dr. Siddeswara Guru, Director, Data Science at Terrestrial Ecosystem Research Network, University of Melbourne

15/10/2022 Saturday

7:00 PM - 8.00 PM: Session 6: Sensors and Irrigation Automation

Dr. Jitendra Kumar, Scientist (Land and Water Management Engineering), ICAR-VPKAS, Uttarakhand

Week 2 - Offline (9.30 AM - 5:00 PM) Venue: JSSATE, Bengaluru

17/10/2022 Monday

10:00 AM - 11.00 AM: Inauguration

Dr. Jitendra Kumar, Scientist (Land and Water Management Engineering), ICAR-VPKAS, Uttarakhand

11:30 AM - 4.00 PM: IoT for Agricultural Applications

Dr. Sreenivasa Setty, Chief Technical officer, SST Technologies, Bengaluru

Topics Discussed: Hands on Node MCU, LED sensor, Blynk

18/10/2022 Tuesday

9:00 AM - 5.00 PM: Visit to University of Agriculture, GKVK, Bengaluru

The visit to University of Agriculture, GKVK, Bengaluru had been organized as part of the ATAL faculty development programme on 18/10/2022 to understand the precession agriculture. Dr. Prabhudev Jagadeesh and Dr. Pradeep H K were the coordinators of the industrial visit.

The University began its academic activities by offering in degree programs in Agriculture and Veterinary disciplines. The University of Agricultural Sciences-Bangalore (UAS-B) was the first State Agricultural University (SAU) in Karnataka established in 1963 through an act of the Legislature of the then Mysore State. UAS is remowned for basic interventions like improved varieties, better crop nutrition and improved agronomic practices tailored to the respective agro-climatic zones.

We started travelling from the college campus at 9:50 am via college bus. Totally 40 participants took part in the visit. We reached the campus around 11:00 am. We met Dr. Darshan, assistant research engineer, post harvest research department who welcomed us and took us to the presentation.

1st Session:

The presentation began with the topic "Soilless farming". The presenter gave a brief note on soilless farming systems viz hydroponics, aquaponics and aeroponics.

In Hydroponics, the plants grow on a neutral, solid and inert substrate. This can include materials such as clay balls, sand or even rockwool. A nutrient-enriched aqueous solution provides the plants with the water, oxygen and minerals they need to grow.

Aquaponics, finally, refers to the combination of hydroponics and aquaculture (fish farming). When combined, these two techniques become complementary, allowing farmers to establish a loop that is almost closed, producing fish and plants.

Aeroponics is different from hydroponics in that it uses no substrate. The nutrient solution is permanently and directly sprayed onto the plants' roots.

She also elucidated that Soilless systems can also be useful in geographical areas where the soil is not fertile or there is no access to soil. These systems require less water than soil-based cultivation, which helps preserve this valuable resource. The installation of such systems is also an option in areas with limited access to water resources. A third important advantage is that these systems generate a higher yield compared with traditional agriculture. According to the FAO, the vegetable yield of soilless systems is 20 to 25% higher than in traditional systems, because the former confine the roots in smaller spaces, which means the number of plants per square metre is higher. Many topics were discussed as part of Soillless farming master class:

- Types of soilless agriculture, Nutrient film technique
- Deep water culture, Dutch bucket system
- Nft hydroponics, Aeoroponics, Aquaponics
- ICPF model, Microponics, pH and TDS list
- Common indoor plant pests, Ways to fight
- Commercial a spects

2nd Session:

After the tea break, the next session started with the topic "Drone solution for agriculture". The next speaker explained the usage and necessity of drones in the agriculture industry. He illuminated on drones supplied by the company Beegle. The drone technology is increasingly available for use in various sectors of agriculture as well. Though the technology is still nascent in India, many companies are trying so that it is easily available to Indian farmers and ready to be used to increase efficiency in agricultural production. Advantages of Using Drones in Agriculture; Soil and field analysis, Crop monitoring, Plantation, Livestock management, Crop spraying, Check proper health, Avoid over use of chemicals, Prepare for weather glitches, Monitor growth, Geofencing. The use of drone technology in agriculture is here to stay. This emerging technology can help reduce time and increase the efficiencies of the farmers. The use of drones in the agricultural sector is only expected to rise as the industry matures, and so it is good to know how to use this technology judiciously. Mr. Abyas also gave insights on :

- Drone classification in India, Nano micra small medium large
- Who can fly the drone etc.

Campus Tour:

After the lunch break, Dr. Darshan took us to visit all types of soilless farming systems viz hydroponics, acquaponics and aeroponics. We got to experience the farm growth by observing the various plantations. We also visited the research lab which had equipment related to farming such as grinders, sieving machines, different types of cutters, grain cleaners etc.

Later we left the campus with useful knowledge regarding various agricultural precisions. Thus, purpose of visit was served.

19/10/2022 Wednesday

10:00 AM - 12.00 AM: UAVs for Precision Agriculture

Dr. Omkar S N

Clinief Research Scientist Department of Aerospace Engineering, IISc, Bengaluru

12:00 AM - 1.30 PM: Teaching Practice 1

2=00 PM - 4.30 PM: Reflection of Indian Values in Indigenous Agricultural Practices

Dir. Rajath Vasudevamurthy

BIMS College of Engineering, Bengaluru

20/10/2022 Thursday

10:00 AM - 12.00 AM: Implementation of Deep Learning based approaches for Classification of diseases in plant leaf

Dir. Manjunath S, Chief Engineer at Samsung Electro Mechanics, Bengaluru.

12:00 AM - 1.30 PM: Zero Programming tool for development of ML applications for agricultural predictions

D.r. Manjunath S, Chief Engineer at Samsung Electro Mechanics, Bengaluru

2=00 PM - 4.00 PM: General Aspects of NEP: Academic Point of View

D r. D.S. Guru, Professor & Chairman, Dept. of Studies in Computer Science, University of Mysore

4=00 PM - 4.30 PM: Teaching Practice 2 8=00PM-10P.00PM: 2 Online Assessments

21/10/2022 Friday

1€0:00 AM - 12.00 AM: Demystifying Research Methodology

Dr. Mahanand BS

H OD, Information Science & Engineering, JSSSTU, Mysuru

12:00 AM - 1.30 PM: Industrial visit report submission, 2 Research articles summary and outcomes

report submission, reflection report submission

2=00 PM - 4.00 PM: Valedictory/Distribution of rewards

The FDP enabled the participants to learn the state-of-the-art research related to application of IoT, ML,

A. I in precision agriculture

D. r.B. Surekha

P_rofessor Do ept. of ECE,

K.-S. Institute of Technology







ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that SUREKHA BORRA, Professor of K.S.INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Artificial Intelligence and Machine learning Techniques for Precision Agriculture" from 2022-10-10-2022-10-15 to 2022-10-17-2022-10-21 at JSS ACADEMY OF TECHNICAL EDUCATION.

Hambi.

Advisor-I, ATAL Academy Mamta Rani Agarwal





Coordinator



KAMMAVARI SANGHAM (R) - 1952

K. S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560109
Tel: 080 - 28435722 / 24 Fax: +91-80-28435723 Email: principal.ksit@gmailcom Web: www.ksit.ac.in

Faculty Development Program

on

Simulation of Electronics Circuits using Multisim & LabVIEW Programming and

Design & Analysis using VLSI Cadence Tool Organized by

Department of ECE In association with

IETE, ISTE and IE(I)











Date: 26th Sep 2022-30th Sep 2022

Timings: 9.00 am - 4.30 pm

Venue: VLSI Lab, DSP Lab, Old Building, KSIT

Conveners:

Dr. P. N. Sudha

Dr. Chanda V Reddy



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

FDP Title: Simulation of Electronic Circuits using Multisim & LABVIEW Programming and Design & Analysis using VLSI Cadence Tool

Organized by: Department of ECE, KSIT

Duration: 26-9-2022 to 30-9-2022

The below mentioned faculty have attended and submitted the report as enclosed.

1. Dr. Chanda V Reddy
2. Dr. B Sudarshan
3. Dr Rekha N

4. Dr Dinesh kumar DS

5. Mr B R Santosh Kumar

6. Dr. Devika B7. Mrs Vishalini Divakar

8. Mr. Praveen A

9. Mr Christo Jain

10. Mrs. Pooja S

11. Mr. Dinesh J

12. Mrs. Thriveni C

13. Mr. Nagraj D N

14. Mrs. Gangalakshmi B

15. Mrs. Shantha C

HOD-ECE

FDP on "Simulation of Electronics Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" was organized by the Dept. of ECE, K.S. INSTITUTE OF TECHNOLOGY, Bengaluru in association with IETE, ISTE and IE (I) from 26th Sep 2022 to 30th Sep 2022.

OBJECTIVES:

- To help faculty enhance their technical skills.
- To familiarize faculty with the Multisim electrical circuit simulation package to create simple schematics and perform basic simulations.
- · To help faculty improve their modern tools usage skills.
- To help faculty explore the others work in their interested domains and help them evolve critical thinking.
- To help students faculty and exchange ideas.

PROFILES OF RESOURCE PERSONS

Day 1:Monday



Mr. Navneet Krishna, Field Application Engineer, Entuple Technologies Pvt. Ltd. Completed his M.E in the year 2011 from KSR College of Technology, Thiruchengode, Tamilnadu. He has completed his B.E in the year 2007 from Jayaram College of Engineering and Technology, Thuraiyur, Tamilnadu. Later, Mr Navneet completed his VLSI Design Certification course from Pune University in the year 2008 and worked as a VLSI Trainer at Accel Technologies from 2008 – 2009. Has 10+ years of Teaching experience and has published a research article titled "Low Power Encoder for Flash ADC Architecture" in 3rd International Conference on "Computing for Sustainable Global Development", which was conducted during 16th - 18th March, 2016 organized by Bharati Vidyapeeth Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA)

Day 2: Tuesday



Mr. Shivaprasad B K, Senior Field Application Engineer, Entuple Technologies Pvt. Ltd. Completed M.Tech from B.V. Bhoomaraddi College of Engineering and Technology, Hubli, in 2014, with VLSI Design and Testing as his specialization. He completed Bachelor of Engineering from SJM Institute of Technology, Chitradurga, in 2012. He worked as an Intern at ISRO Bangalore in the year 2014. He has 08+ years of experience in VLSI field. He is the Lifetime member of Indian Society for Technical Education (ISTE).

Day 3: Wednesday



Mr. Bhaskar B, Assistant Professor, SJB Institute of Technology, Bangalore, has more than 20 years of experience. He has completed M.Tech in RV College of Engineering, Bangalore in 2007. His research expertise is in signal and image processing. He has filed 2 patents, out of which one is published and the other is under process. He has more than 16 quality journal papers. He is a member of IETE, ISTE and affiliated to IEEE.

Day 4 & Day 5: Thursday & Friday



Dr.Ravikumar.A.V, is currently working as an Associate Professor and Chief coordinator LabVIEW Academy., SJBIT, Bagalore. He has 20 years of teaching experience and have received his PhD in "Real-TimeObject Tracking System By Using LabVIEW".HE is associated with many Professional Bodies like Indian Society For Technical Education (ISTE), Institute Of Engineers, International Association of Engineers (IAENG). He has published a book titled "Processing Digital Electronics and its Application with LabVI EW "He has filed one patent, received many research grants, and is actively involved in consultancy works. He has delivered more than 20 guest lectures at various faculty development programs and workshops. He has published 24 research articles in International Journals and has presented 15 papers in various International and national conferences.

EVENT:

The FDP is organized with an objective to provide insights as how to use modern tools for simulation of electronic circuits. The FDP was inaugurated on 26th Sep 2022 at 10.00am in Seminar Hall, Ground Floor, New Building, KSIT. Mrs. Sangeetha V, Assistant Professor, Dept.of ECE, KSIT, Bangalore started the event by welcoming the Participants. Dr.Dilip Kumar K, Principal, KSIT welcomed the Dignitaries. Dr. PN Sudha, HoD, ECE Department briefed the importance of organizing the FDP. Sri. R Rajgopal Naidu, President, Kammavari Sangham delivered presidential address. Sri Leela Shankar Rao, Secretary Kammavari Sangham delivered keynote address. Dr.KVA Balaji, CEO, Kammavari sangham congratulated all the enrolled participants. Mr. Santhosh Kumar BR, Associate Professor, Dept. of ECE, delivered vote of thanks.



Ms. Sangeetha, Assistant Professor, Dept. of ECE inviting the Guests and Participants

Post Break, the first session started at 11 am in VLSI Lab, 2nd Floor, Old Building, KSIT. Dr.Surekha Borra, Professor, Dept. of ECE introduced the Resource Person *Mr. Navneet Krishna, Field Application Engineer, Entuple Technologies Pvt. Ltd.*

Day 1: 26th September 2022

VLSI Lab using Cadence tool:

Topics Covered:

- 1. Design of UART and set the constraints to obtain optimum gate level netlist.
- 2. Physical Design for the synthesized netlist of a Digital Circuit.
- 3. Analysis of Two stage of OPAMP and its Layout verification.

Outcomes of the event:

- Participants were trained to use CADENCE Tools for analog and digital design of circuits
 - Latest Advancements in VLSI Industry
 - Full Custom Design Flow with Analog circuit as an example Schematic Entry,
 - · Spice Models, Simulation Analysis and Measurement of Operation Point
 - Analysis Transient and Power Analysis
 - · Layout entry Floor planning, Placement, Routing
 - · Post layout simulation
- Participants got awareness of using modern simulation tools.
- Provided practical exposure and equipped the faculty members in designing, building, and debugging analog and digital circuits using simulation tools.
- Provided a platform to the faculty members to upgrade their knowledge.
- Participants used Multisim simulation tool for the verification of electronic circuits.
- Participants used Lab VIEW graphical programming environment to develop the research, validation, and production.
- Participants designed and analyzed UART and two stage OPAMP with its post layout simulation.

Program Outcome

Participants got opportunity to learn using various simulation tools.

POs Mapping with Rank

FDP on	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
Simulation of electronic circuit	3	3	3	2	3	-	-	-	1	-	-	2

PO1: Applied the knowledge of mathematics, engineering fundamentals, and engineering specialization to the solution of complex engineering problems

PO2: Participants identified and analyzed engineering problems to arrive at substantiated conclusions.

PO3: Participants designed solutions for complex engineering problems and designed system components, processes to meet the specifications.

PO4: Participants used research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Participants were trained on modern tools.

PO9: Participants practiced the modern tools individually.

PO12: Learning modern tools and using them for design helps the participants in their future as well

Coordinators

Home

Principal



K. S. INSTITUTE OF TECHNOLOG

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

in association with









Certificate of Appreciation

This is to certify that Mr./Ms./Dr. CHANDA V REDDY

has officiated as Convener in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" at K.S. Institute of Technology, Bangalore during 26th to 30th September 2022.

Dr. Dilio Kumar K

Principal & Director K. S. Institute of Technology

K. S. group of Institution



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

in association with









Certificate of Participation

Dr. P. N. Sudha

Professor & Head, ECE Dept K. S. Institute of Technology Dr. Dilip Kumar I



K. S. INSTITUTE OF TECHNOL

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME) #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering in association with









Certificate of Participation

This is to certify that Mr./Ms./Dr. REKHA N	from KSIT
has participated in the Five Days Faculty Development Progra	m on "Simulation of Electronic Circuits using
Multisim & LabVIEW Programming and Design & Analysis	s using VLSI Cadence Tool"
at K.S. Institute of Technology, Bangalore during 26th to 30th Se	ptember 2022.

Dr. P. N. Sudha Professor & Head, ECE Dept K. S. Institute of Technology

Dr. Dilip Kumar K Principal & Director K. S. Institute of Technology



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering in association with









Certificate of Appreciation

This is to certify that Mr./Ms./ Dr. D. S. Dinesh Kumar.

has officiated as Coordinator in the Five Days Faculty Development Program on "Simulation of

Electronic Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI

Cadence Tool" at K.S. Institute of Technology, Bangalore during 26th to 30th September 2022.

Dr. P. N. Sudha

Professor & Head, ECE Dept K. S. Institute of Technology Dr. Dilip Kumar K Principal & Director

K. S. Institute of Technology



K. S. INSTITUTE OF TEC

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME) #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering in association with









Certificate of Participation

This is to certify that Mr./Ms./Dr. SANTHOSH KUMAR BRfrom KSIT has participated in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" at K.S. Institute of Technology, Bangalore during 26th to 30th September 2022.

Professor & Head, ECE Dept K. S. Institute of Technology



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering in association with









Certificate of Participation

This is to c	ertify that Mr./Ms./D	DEVIKA B	from KSIT
has partici	ipated in the Five Day	s Faculty Development Progra	m on "Simulation of Electronic Circuits using
Multisim d	& LabVIEW Progran	nming and Design & Analysis	s using VLSI Cadence Tool"
at K.S. Inst	itute of Technology, B	Bangalore during 26th to 30th Se	ptember 2022.

Dr. P. N. Sudha

Professor & Head, ECE Dept K. S. Institute of Technology

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOL

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

in association with









Certificate of Participation

This is to certify that Mr./Ms./Dr. VISHALINI D from KSIT has participated in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" at K.S. Institute of Technology, Bangalore during 26th to 30th September 2022.

Professor & Head, ECE Dept K. S. Institute of Technology

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109
Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering
in association with









Certificate of Participation

This is to certify that Mr./Ms./Dr. PRAVEEN A from KSIT has participated in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using Multisim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" at K.S. Institute of Technology, Bangalore during 26th to 30th September 2022.

Dr. P. N. Sudha
Professor & Head, ECE Dept
K. S. Institute of Technology

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

in association with









Certificate of Participation

Dr. P. N. Sudha

Professor & Head, ECE Dept K. S. Institute of Technology Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering in association with









Certificate of Participation

This is to certify that Mr ./Ms./ D	POOJA S	from KSIT	
		n on "Simulation of Electronic Circuits us	
Multisim & LabVIEW Program	nming and Design & Analysis	using VLSI Cadence Tool"	
at K.S. Institute of Technology, E	Bangalore during 26th to 30th Sep	otember 2022.	

Professor & Head, ECE Dept K. S. Institute of Technology

Dr. Dilip Kumar K Principal & Director

K. S. Institute of Technology



K. S. INSTITUTE OF TECHNOLOGY

Appeared by ACCE, New Doller, Affiliated to NYO, Enlagari, Europaida, Amounted by NACC & NEW Steps, of CHI, NEW YORK, NEW YORK

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel : 28435722 J 724, E-mail: principal@ksit.edu.in Wob: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

in association with



Certificate of Participation

This is to correly that Mr./Hs./Ar. DINESH J from KSIT

has participated in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using Multinim & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool"

at K.S. Institute of Technology, Beognolove during 26" to 30" September 2022.

Br. P. N. Settina Professor & Wood SEE Dept E. S. Internets of Netheology

Dr. Dilip Kumar K

Principal & Discour E. Jr. Secreta of Variancings



K. S. INSTITUTE OF TECHNOLOGY

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering



Certificate of Participation

This is a confirmat He, An, An THRIVENIC Ann KSIT

has participated in the Fire Digis Feculty Development Program on "Simulation of Electronic Cleralits using Multistin & LabVIEW Programming and Design & Analysis using VLSI Cadence Tool" of K.S. Institute of Technology, Bangahore during 26" to 38" September 2022.

Dr. P. Se Sadha Fraktion & Houk R. E. Days & A. Dermay of Sechalogy

Dr. Dilig Kresur K Prinqui d (finctor

K. S. heature of Sechnology.

Edwal -



K. S. INSTITUTE OF TECHNOLOGY

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering

is resetable with

sebullil & @ @

Certificate of Participation

DELLEGO MANAGE NAMARAT DN

Jun. KSIT

has point general to the flow Capit facility Development Program and Dissolution of Electronic District unling

MARLOOD & LOSSYS'S Programming and Design & Apolpuls owing H.S. Colomes Stud-

of E.S. Pertinate of Sectionings, Barganine alarmy, 26" or 50" September 2002.



K. S. INSTITUTE OF TECHNOLOG

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering. its examplation with



Certificate of Participation

KSIT

has provened to the five form furnity disconnect frequencies. Secretation of Discount Decades and a

Meditorio & East-192W Programmonia and Directo & Analysis uniting VLSI Caldinia Tout"

at \$1.5. restricts of Technologic Surgestion States 26" to \$6" September 2007.

Dy. Didge Science Sci.



K. S. INSTITUTE OF TECHNOLOGY

#14 Raghuvanahali, Kanekapura Main Road, Bengaluru-560109
Tel: 26435722 1724 E-mail: principal@kat adulir Web: www.ksit.edu.in

5 Days Faculty Development Program

Organized by

Department of Electronics & Communication Engineering



Certificate of Participation

This is to certify that Mr./Ms./Mr. C. SHANTHA from KSIT

has participated in the Five Days Faculty Development Program on "Simulation of Electronic Circuits using

Multisian & LabVIEW Programming and Design & Analysis using VLSI Codence Tool"

or K.S. Institute of Technology, Bangulore during 26" to 36" September 2022.

Dr. P. N. Steller Fruitmer & Host, SCT Dept & S business of Declaratory Dr. Dilip Kamar K Principal & Director E. L. humber of Technology



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: Introduction to Python Programming & its applications

oucher		
AICTE-VTU Joint Teachers Training	CHIEF PATRON	AICTE-VTU Joint Teachers Training
Programme for AICTE Approved & VTU Affiliated Technical Institution Teachers	Dr. S Vidyashankar Han'ble Vice Chancellor, VTU, Belagavi PATRONS	Programme for AICTE Approved & VTU Affiliated Technical Institution Teachers
One Week Teachers Training Programme	Dr. B.E. Rangaswamy Registre, VII, Belagavi Dr. T.N Sreenivasa Registra (Evaluation), VII, Belagavi	One Week Teachers Training Programme
"Introduction to Python Programming	Smt. M. A. Sapna Finance Officer, VTU, Belagavi	"Introduction to Python Programming &
& Its Applications"	Dr. Amit Kumar Srivastava Director, FDC, AICTE, New Delhi	Its Applications"
13 th to 17 th March 2023	Dr. H R Sudarshana Reddy Regional Director (Vc.), VTU Regional Office, Bengaluru & Coordinator, VTU CPGS, VIAT, Muddenshalli	13th to 17th March 2023
REGISTRATION FORM	University Coordinator Dr. N Chikkanna Professor & Chairman, Dept of Aerospace Engineering, VTU CPGS, VIAT, Muddenshali	AGCTE 12 voids que
	Programme Coordinator Dr. K Thippeswamy. Professor, Dept of CSE, VTU BG Centre, Mysuru	2.3
	ORGANISING COMMITTEE Dr. Burch Rangagus, Professor & Charmar, Figh. of Applied Science Br. T.C. Thomaja, Professor & Programme Coordinator, Deet of M. Har in Small Cities	Organized By:
Mobile:	Br. Thi-Che Present R. Accessed to Proposition Communication and Proposition (Accessed to Accessed	VTU- Human Resource Development Cell (HRDC) Visvesvaraya Technological University
Declaration by the Applicant If selected, I agree to abide by the rules and regulations of the training Programme of YTU-HRDC and shall attend all the tessions compulsorily.	III. C. S Verkatesk, Perfession, Dept of Mechanical Engineering Hz. Blaussmargh, Jonathan Politischer Berg, d. Avenapare Engineering Hz. Assame Kumur C. S., Associal Profitischer, Digit of Chylliad Science Hz. K. Caraylad Berkel, Associal Profitischer, Digit of Chylliad Science Hz. K. Caraylad Berkel, Associate Profitischer, Dept of Hills Hz. H. H. Bintonka, Almaniar Parliamar, Dept of Hills Hz. H. H. Bintonka, Almaniar Parliamar, Dept of Hills Hz. Parliaghable, X. Associates Profitischer, Sprind O'Hare, VIII R.D. Bengalvan Hz. Parliador, M. Associates Profitischer, Sprind O'Hare, VIII R.D. Bengalvan	Centre for Post Graduate Studies Bengaluru Region, Muddenahalli Chikkaballapur-562101
Date: Signature of the Applicant	Br. Neventh Hirstonen, Assistant Professor, Dept. of C28 Br. Pracures DS, Assistant Professor, Bept. of Agoliel Sciences Br. Aslesson C Granda, Assistant Professor, Dept. of Declarated Engineering Br. Kantlin D Decompter, Assistant Professor, Dept. of C80 Br. Lalashuningsystem K. Assistant Professor, Dect. of NRMA	Venue: Online
Recommended and Forwarded	Br. Vynarani K. doman Prefast, Diji. 1985. Mr. Saijen C. Peldezi, Anatur Brober, Diji. of Anaqueo Impirering Mr. Pasard U. Ralbas, Animar Prefasion, Daji of Machanial Engineering Mr. Ravil E. Harris, Animar Prefasion, Diji. of Machanial Engineering Mr. Ravila V. Maje, Animar Prefasion Diji. of CCCI. Mr. Varlas V. Mali, B. Animar Prefasion, Diji. of CCCI. Mr. Varlas V. Mali, B. Animar Prefasion, Diji. of CCCI.	Platform: Zoom App
Signature of the Head of the Institution	Mer. Blassan C. Accelust Professor, Dept. of CSE Nr. Videonaudi, II, Accelust Professor, Dept. of CSE Nr. Auton W Reiker, Execute Science, Dept. of Aerospace Engineering	

Visvesveraya Technological University (VTU) ramed after Bharat Ratna Dr. Sir M. Visvesvaraya established on 1st April 1998, as per the VTU Act 1994 of the Government of Karnataka. University has been established by the Government of Karnataka in order to promote planned and sustainable development of technical education and has its Head Office located in Belagavi in the state of Karisataki. Reckoning the fact that, University is a seat of confluence of knowledge and as a technological University, Visvesvaraya Technological University does not restrict itself only to curricular activities but also emphasizes on the overall growth of knowledge in society and hence its campus in Belagavi is named aptly as "Juana Sangama". The University has jurisdiction over the whole state of Karnataka. VTU has established four regional centers at Bengaluru, Mysarut, Kalburgi and Belagavi for administrative convenience. VTU is one of the prestigious and largest technological Universities in the India having one Constituent College, 220 Engineering colleges and 20 Autonomous Colleges. education and has its Head Office located in Belagavi in the

VTU is imparting technical education to more than a lakh students under its 35 Undergraduate & 94 Postgraduate Programmes, VTU is offering Doctoral Programmes in 865 Programmes, VTU is offering Docioral Programmes in 865 departments in various affiliated Colleges which have been recognized as research centers. Around 5000 Research Scholars are perusing for Doctoral and M.Sc. (Engineering) By Research Programmes. VTU has established full-pledged Centers for Post Graduate Studies at Muddenahalli, Kalburgi, Belagavi and Mysuru.

Kalburgi, Belagavi and Mysuru.

About AlCTE, New Delhi

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level apex advisory body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner. And to ensure the same, as stipulated in the National Policy of Education (1986), AICTE was vested with

Statutory authority for planning, formulation, and maintenance of norms & standard.

- maintenance of norms & standards
- Quality assurance through accreditation
- Funding in priority areas, monitoring, and evaluation
- · Maintaining parity of certification & awards.

About the VTU PG Centre, Muddenshalli The Visvesvaraya Technological University, Post Graduate Center, Bengaluru Region, Muddenshalli has 200 acres campus located at Muddenshalli, Chilakahilalpura (Dist), Muddenshalli is the hirth place of great legend Bharata Ratna Sir M. Visvesvaraya, It has all necessary infrastructure required for imparting quality education through its well-structured administrative and academic staff for overall development of student's personality.

staff for overall development of student's personality Center for PG Studies has five full time post graduate Programmes in M.Tech, MBA and MCA. All the departments have well qualified faculty.

PROGRAMME OBJECTIVES:
This Python Programming FDP leads faculty from the basics of writing and running Python scripts to more advanced features such os file operations, regular expressions, working with binary date, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting.

Participants should already be comfortable using the operating system (Linux, Unix, Windows, Solaris, macOS, etc.) on which they will be running Python. While not annadatory, basic skills with at least one other programming language are desirable.

dvantages of this workshop of Python Programming: There are a number of advantages when a Institute / College/ Faculty / Student chooses to be socially connect and responsible, such as:

- Master the fundamentals of writing Python scripts Learn core Python scripting elements such as variables and

- Learn core Python scripting elements such as variables and flow centrol structures
 Discover low to work with lists and sequence data
 Write Python functions to facilitate code reuse
 Lise Python to read and write files
 Male their code robust by handling errors and exceptions properly
 Work with the Python standard library
 Explore Python's copet-or-ented features
 Search text using regular expressions

This workshop also summarizes are main points of the university defined syllabus titled "Introduction to Python Programming & Its Applications", It also functions as a platform for brainstorming, in-depth discussion, and clarifying the doubts of faculties who are willing to teach carrying the doubts of faculties who are willing to teach this course. This workshop helps all faculties and students to increase their understanding of latroduction to Pythen Programming, Practice sustainability and creativity, Showcase planning and organizational skills of all the stakeholders.

This workshop also summarizes the main points of the

Renowned Experts from reputed Institutions, Senior Faculties of VTU and Industry Experts

Eligibility:

Teachers from AICTE Approved and VTU Affiliated Technical Institutes those who are interested in teaching Technical Institutes those who are interested in teaching the "Introduction to Python Programming" course.

Registration Fee: No Registration Fee

How to Apply: Registration through Google form link https://forms.gle/nw7OrX7cA4XXbP2UA

- Programme Timings (Each Day):
 (i) First session; 10.00 AM to 1.00 PM (3 hours).
 (ii) Lunch break: 1.00 PM to 1.30 PM
 (iii) Second session: 1.30 PM to 4.30 PM (3 hours).

Certificate:
The certificate of participation for the faculty who registers for the Programme shall be issued, provided they satisfy the attendance requirement of 80 % of the 10 sessions held during five days of the Programme and secure 60 % of the maximum marks (100) prescribed for formative evaluation and summative evaluation.

Dr. K. Thippeswamy Professor, Dept of CSE VTU PG Centre, Mysurt Mobile: 9448500224, 7019605611

Faculty Development Program (FDP) Report

Title: Introduction to Python Programming & its Applications

Date: 13th – 17th March 2023

Organized by: Visvesvaraya Technological University, Centre for Post-Graduation

Studies, VIAT, Muddenahalli, in association with AICTE.

Program Coordinator: Dr. Thippeswamy K

VTU Coordinator, Professor & Chairman: Dr. N. Chikkanna

Registrar: Dr. Rangaswamy B. E.

Participant: Mr. Ranganath N. of KSIT, ANILKUMAR.A of KSIT, MANJUNATHA.B.R of

KSIT

Summary:

The AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming & its applications" was a one-week course designed to advance the educational methodologies of teaching professionals in the field of programming. This program aimed to familiarize participants with Python, a versatile and powerful programming language increasingly in demand across various technological sectors. The FDP covered fundamental concepts as well as practical applications of Python, enabling educators to integrate contemporary programming curriculum into their teaching repertoire.

Over the course of the week, attendees were immersed in a combination of lectures, handson sessions, and project-based learning. The sessions were conducted by a team of experts who provided in-depth knowledge and addressed the evolving requirements of programming education. Participants were engaged in interactive discussions, group activities, and coding exercises that fostered a collaborative learning environment.

Mr. Ranganath N. of KSIT demonstrated commendable participation and successfully completed the training, as evidenced by the certification awarded. This accomplishment not only enhances their individual teaching toolkit but also contributes to the broader academic excellence of KSIT.

The program was concluded with a feedback session, where participants shared their experiences and insights, contributing to the continual improvement of future FDPs. The organizers and the institutional bodies expressed their appreciation to all contributors for making this FDP a constructive and enriching educational endeavor.



RANGANATH.N



Allens

ANILKUMAR.A



AICTE - VTU Joint Teachers Training Programme VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Centre for Post-Graduation Studies, VIAT, Moddenahalli, Chikkaballapur (Dist.) -562101 One Week Online Teachers Training Program



On "Introduction to Python Programming & its Applications" 13th - 17th March 2023

Certificate

This is to certify that Mr. /Mrs. /Dr. /Prof. Anilkumar A of K.S.Institute of Technology has participated and successfully completed One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications" from 13th to 17th March 2023 Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.

Introduction to Python Programming &

its Applications

Dr. N. Chikkanna

TU Coordinator, Professor & Chairman Dept. of Aerospace Engineering VTU CPGS, Muddenshalli.

Dr. Rangaswamy B E

Registrar Visvesvarnya Technological University, Belagavi

MANJUNATHA.B.R

Murgine



Certificate Ne: AICTE-VTU/CPGSM/2022-28/PRG-01/675



Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) -562101 One Week Online Teachers Training Program

"Introduction to Python Programming & its Applications" 13th - 17th March 2023

Certificate

This is to certify that Mr. /Mrs. /Dr. /Prof. Manjunatha. B. R of K S Institute of Technology has participated and successfully completed One Week AICTE-VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications" from 13th to 17th March 2023 Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.

Programme Coordinator Introduction to Python Programming & its Applications

Dr. N. Chikkanna TU Coordinator Professor & Chairman Dept. of Aerospace Engineering. VTU CPGS, Muddenshalli.

BE Dr. Rangaswamy B E

Registrar Visvesvarava Technological University, Belagavi.

SIGNATURE OF HOD

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru - 560 109

K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 10s.

6 Days Faculty Development Program

on

"Python Programming and its Applications"

Organized by

Department of ECE

In association with

IETE, IEEE, ISTE and IE(I)



Date: 27th March to 1st April 2023 Timings: 9.00 am - 4.00 pm

Venue: CAD Lab, New Building, KSIT

6 days FDP on "Python Programming and its Applications" was organized by the Dept. of ECE, K.S. Institute of Technology, Bengaluru in association with IETE, ISTE and IE (I) from 27th March 2022 to 1st April 2023.

OBJECTIVES:

- To help faculty enhance their technical skills.
- To familiarize faculty with the Python language.
- To help faculty improve their modern tools usage skills.
- To help faculty explore the others work in their interested domains and help them evolve critical thinking.

PROFILES OF RESOURCE PERSONS

Mr. Suresh Maha Rajashekar, is a seasoned technocrat with 25+ years of progressive experience in Technical training/mentoring, System Architecture/Software Development/Project Management & Validation with reputed organizations in different domains. He has done BTech(C&S) from Mysore university, MTech(C&S) from Bits Pilani and currently pursuing PhD in BCI Technology from VTU. He has Started his career with C-DOT (Center for Development of Telematics) - A premier Telecom R&D Center, Govt of India and then worked in MNCs, Texas Instruments (TI), Infineon & Intel. He has travelled all over the world, on different project assignments. He has 15+ years progressive hands-on experience in python and used python extensively on varied projects. Mr. Suresh is Currently working as a freelancer-Technical Training, Project Mentoring & Management.

Mr. Karthik Subramanya, An expert in Object Oriented Programming. He has pursued BTech from PES and MTech from AITC. Currently he is working in a Start up as a specialist in project based on OOPs.

FVFNT

The FDP is organized with an objective to provide insights as how to use modern tools for simulation of electronic circuits. The FDP was inaugurated on 26th Sep 2022 at 10.00am in Seminar Hall, Ground Floor, New Building, KSIT. Mrs. Supritha Ganesh, Assistant Professor, Dept. of CSE, KSIT, Bangalore started the event by welcoming the Participants. Dr. Dilip Kumar K, Principal, KSIT welcomed the dignitaries. Dr. Chanda V Reddy, Professor of ECE & IQAC Coordinator briefed the importance of organizing the FDP. Dr. Rekha B Venkatapur introduced the chief guest Dr. C. P. Ravi Kumar, Director of Talent Development, Texas Instruments addressed the gathering. Sri. R Rajgopal Naidu, President, Kammavari Sangham delivered presidential address. Sri Leela Shankar Rao, Secretary Kammavari Sangham delivered keynote address. Sri Nirajakshulu Naidu, Treasurer, Kammavari Sangham addressed the gathering and highlighted the importance of continuous learning. Dr. KVA Balaji, CEO, Kammavari sangham congratulated all the enrolled participants. Dr. PN Sudha, Professor & HoD, Dept. of ECE, delivered vote of thanks.



Keynote Speech:

Post break, the keynote speech by Dr. C. P. Ravi Kumar, Director of Talent Development, Texas Instruments, India started at 11 am in Conference Hall, Ground Floor, New Building.

Topics Covered: Who should learn computer programming, essentials of programming, how is programming different today, constructs, significance of testing, File I/O, Libraries, challenges, grading.

Topics Covered:

- Python Features
- Applications
- Frameworks and Libraries
- How to execute Python
- Key words
- Indentation
- User input handling
- Numeric Operations
- Python Variables

Topics covered:

- Jupyter Notebook Installation
- Python Data Types: Int, float, complex numbers
- Conditional statements
- Loops
- Strings
- Miniprojects

Team No.	Name	Title				
1	Mr Nagabushan A Mr. Prasad K	Reading student details from the console and writing excel file				
	Mr. Saleem S Tevaramani Mr. Praveen A Dr.Surekha B					
2	Dr Sudharshan Mrs. Srividya L Mr. Suresh Kumar A Mrs. Thriveni C Mrs. Bhargavi Anath	Traffic Light control using Python				
3	Ramya T Rahul R P Vasanth kumar reddy Shreya H Shwetha	Digital thermometer with Arduino and LM335 temperature sensor				

4	Abhishek J	State Change Detector using Arduino Uno
	Ajay B G	
	Akash M	
	Chethan G	
	G Bhavana Priyadarshini	
	Gomitha R C	
	Harshitha J	
	Harini K	
5	Shakthi Anbazhagan M	Servomotor, Distance Measurement through Ultrasonics, Displaying
	Darshan K	Hello world through LCD Display
	S Arun Kumar	
	B S Hemashree	
	Hima Swetha S	

Outcome of the event:

- Participants were exposed to use Python tools, different libraries, and Python environment.
- Participants were familiar with basics of python such as lists, tuples, dictionaries, sets and functions
- Participants got awareness on Python based Industries.
- Provided practical exposure in building different algorithm for various applications.
- Participants used Python tool for Server application.
- Participants used Python program environment to develop projects and research.
- All the project groups exhibited their Projects.

POs Mapping with Rank

FDP on	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
Python Programming and its applications	3	3	3	2	3	-	-	-	3	-	-	2

PO1: Applied the knowledge of mathematics, engineering fundamentals, and engineering specialization to the solution of complex engineering problems.

PO2: Participants identified and analysed engineering problems to arrive at substantiated conclusions.

PO3: Participants designed solutions for complex engineering problems and designed system components, processes to meet the specifications.

PO4: Participants used research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Participants were trained on modern tools.

PO9: Participants practiced the modern tools individually.

PO12: Learning modern tools and using them for design helps the participants in their future as well.

Coordinators

HODE

Principal



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109
Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./ Mr./Ms. Laxmi kantha. K

of K. S. Tashbut of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K





K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. Tejaswini. M. L

of K. S. Tostitute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of k. S. Toshtute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. M. Nagabhu Shana

of K.S. Institute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K





K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. NagapraSad. K.S.

of K.s. Institute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of K.S. Josh tuter Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

OP Coordinator

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K
Principal & Director



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of K. S. Institute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of. K.S. Institute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./ Mr./Ms. Prashanth. H. S.

of K. S. Insh tute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

FDP Coordinator

Dr. P. Naudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of. K.S. Toshitute of Technology..... has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

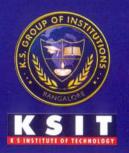
D

N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K





K. S. INSTITUTE

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. Roopesh kumar. B. N of K.S. Inshitute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. Dilip Kumar K Principal & Director

Professor & Head, ECE Dept



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109
Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

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

of K. S. In shitute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. Sam path. Kuman. Sof. K. S. Toch hute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109
Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./ Mr./Ms... Sangappa. S.B.

of K.S. Insh tute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



FDP Coordinator

Kammavari Sangham(R)-1952

K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. Satish Kuman B.

of K. S. Inshipt of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. Te. jasanin. R.

of. K. S. To.s.h. tute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K



K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi., Affiliated to VTU, Belagavi, Karnataka., Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel: 28435722 / 724 E-mail: principal@ksit.edu.in Web: www.ksit.edu.in

SIX DAYS FACULTY DEVELOPMENT PROGRAM

ON

"PYTHON PROGRAMMING & ITS APPLICATIONS"

Organized by

Dept. of Electronics & Communication Engg.

in association with









Certificate of Participation

This is to certify that Dr./Mr./Ms. M. UmaShan Kar

of K. S. Institute of Technology has participated in the Six Days Faculty

Development Program on" Python Programming & its applications "at K.S. Institute of

Technology Bengaluru from 27th March to 1st April 2023.

Dr. P. N. Sudha

Professor & Head, ECE Dept

Dr. Dilip Kumar K





K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: Advances in manufacturing and technologies in aerospace and defence sector

RAMAIAH OHM				
dishibiting agreement Therefore	PATRONS	RAMAIAH (60)		
Registration Form	Dr. M.R. JAYARAM Charmen, Golula Education Frundation (OEF)			
negistiation (of m	Sri. M.R. SEETHARAM Sri. M.R. RAMAJAH Von Chalman (SEF & Director, HIT Secretary (SEF & Director, HIT			
One Week Faculty Development Program on "Advances in Materials & Manufacturing Technologies in Aerospace and Defence sector"	Sri. B.S. RAMAPRASAD Sri. G. RAMACHANDRA Over Executive, SEF (Eng., & Gen. Sc.) Over at Finance, GEF (Eng., & Gen. Sc.)			
de transporte de la	Advisory Committee			
19" September – 23" September 2022	Dr. N.V.R. Noldu, Processi, 811 Dr. Pradip Kumar Distl. Vos Processi, 811			
Names	Dr. Archna, Registrar, (Acedemica), RIF	OF INCLUSION		
Designation:	Sct. Mohadev Kokkari, tegunar (Admin) RIT Dr. Raij George, Hoti GME, RIT	MANUFACTURE CONTRACTOR		
Name & Address of Organization	Dr. Softyam Sovers, Pretandichae Dept. of Malanda Fuga, ISC: Dr. Verikateshvarului, Phinesia Scientia, NAL Bangalore Mr. Babu Sathian V, Mil Process Scientia, NAL Bangalore Dr. Abir N, Choudhury, Cheman, Milliangdore chapter Srt. R. Manjunathia, Chaimas, M. Bangalore shapter Dr. Raghtsverdich Bhill, Advisor, Maiore and Minostot, Rollague	One week Faculty Development Program on		
Mobile No:	Dr. P. Raghothama Rao, Former Science 0, 0900 Sei, M.S. Venkateich, Enmotive Director (F&F), VAL	"Advances in Materials & Manufacturing Technologies in Aerospace and Defence sector"		
Educational Qualification:	Organizing Committee	. 1521004000000000000000000000000000000000		
Professional Experience:	COORDINATORS	19" September - 23" September 2022		
DD No:Bank:	Or. Siddoniju. C			
Dated:				
Diffed:	MEMBERS			
Date:	Dr. C.M. Ramesha 3, 99013 74120	Organized by		
Place:	Dr. Sunith Babu L 9 90080 01824	DEPARTMENT OF MECHANICAL ENGINEERING		



Report

Faculty Development Program (FDP) Report

Title: Advances in manufacturing and technologies in aerospace and defence sector

Date: 19th – 23rd Sep 2023, M.S.R.I.T, Bangalore.

Program Coordinator: Dr. Siddaraju, Department of mechanical engineering

Participant: Dr.GIRISH.T.R. of KSIT, ANILKUMAR.A of KSIT, HARISH.U of KSIT

Summary:

Selection of materials and manufacturing processes are playing crucial role in today's competitive world. In order to create sophisticated, product environment, lot of substantial changes have been made in the research and development of polymers, ceramics, semiconducting materials and composites as functional materials in the field of structural, biomedical, sensor and energy applications. Next generation intelligent automation along with the implementation of cognitive manufacturing powered by AI, advanced analytics, and digital twin implementation will optimise production processes, cut costs, and help A&D manufacturers reach pre-pandemic delivery rates faster and more efficiently. The emergence of material science is also spawning a range of new materials, along with additive manufacturing, and human/robotcollaboration that will significantly change the face of aircraft manufacturing. This FDP focuses on understanding the concept of next generation materials and development of materials for aerospace and Defence sector with the help of advanced manufacturing techniques.

Objectives of the FDP

To train the faculty in the advanced material & their manufacturing Technologies. To build abilities in faculties to develop these techniques towards Aerospace & Defence Sector.

SUBMITTED BY:

ANILKUMAR.A

















CERTIFICATE

This is to certify that

DEMENTS MYS. ANILKUMAR A

of KSIT, Bangalore

has participated in the Five Day - Faculty Development Program on "Advances in Materials & Manufacturing Technologies in Aerospace and Defence Sector* organized by the Department of Mechanical Engineering. Ramaiah Institute of Technology, Bangalore in association with The Institute of Indian Foundrymen, Bangalore Chapter and The Indian Institute Metals, Bangalore chapter from 19* to 23* September 2022 at RIT, Bangalore



HARISH.U

















CERTIFICATE

This is to certify that

DEMINIS HARISH U

of ISSIT, Bangalore
has participated in the Pive Day - Faculty Development Program on "Advances in Materials & Manufacturing Technologies in Aerospace and Defence Sector* organized by the Department of Mechanical Engineering. Rameian Institute of Technology, Bangalore in association with The Institute of Indian Foundrymen, Bangalore Chapter and The Indian Institute Metals. Bangatore chapter from 19th to 23th September 2022 at RIT, Bangatore

Dr. Raji George HOD, Dept. of ME, RIT

Dr. N.V.R. Naidu

Dr.GIRISH.T.R



SIGNATURE OF HOD
Head of the Department
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru 560 109

SIGNATURE OF PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY

BENGALURU - 560 100.

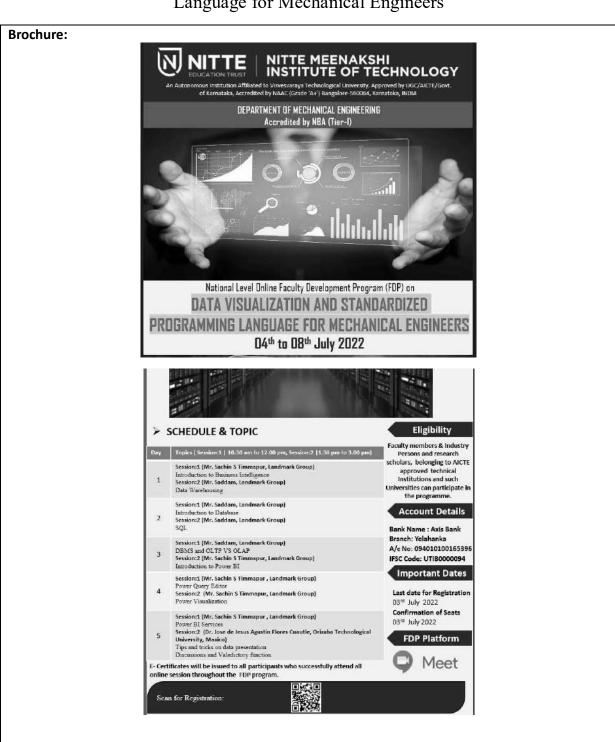


K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: Data Visualization and Standardized Programming Language for Mechanical Engineers



Report

Faculty Development Program (FDP) Report

Title: Data Visualization and Standardized Programming Language for

Mechanical Engineers

Date: 04th to 08th July 2022, NMIT, Bangalore.

Program Coordinator: Dr. Vijay Kumar S Asst Professor, Dept of ME,NMIT

Participant: Mr. Rajesh G.L, KSIT Bengaluru.

Summary:

Data visualization is a concept of gathering data, performing analysis and representing them as a visual context, as said "A picture is worth a thousand words" in the form of a map or a graph. Data visualizations done effectively will allow the human brain to understand the properties of data in a subtle form and therefore come to conclusions at a faster time period rather than spending more time on that. Data Visualization also eases humans to detect patterns, trends, and outliers in the data used for analysis. This FDP provides skills to represent the data in a graphical or pictorial format in an attempt to help people understand its significance. In today's world, data visualization skills have become necessary to be able to identify or uncover patterns, correlations and trends etc.

Objectives of the FDP

To impart knowledge on fundamental & advanced concepts of Data Visualization & its applications for the present Scenario

To provide the possibility bridge between Industry and institute in terms of data management. To discuss standard language for storing, manipulating and retrieving data in database system

SUBMITTED BY:

RAJESH G.L



NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING ACCREDITED BY NBA (TIER-I)

OF PARTICIPATION

This is to certify that

Mr. RAJESH GL

K. S. Institute of Technology, Bengaluru

has Participated in One Week Faculty Development Program (FDP) on "DATA VISUALIZATION AND STANDARDIZED PROGRAMMING LANGUAGE FOR MECHANICAL ENGINEERS " from 04th to 08th of July 2022, organized by Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bangalore-64, Karnataka, INDIA.

> Dr. H. C. Nagaraj Principal, MMIT, Bangalore

Head, Dept. Of Mech Engg, Convener- FDP

Made for free with Certify'em

MATIONAL BOARD OF ACCREDITATION

Dr. Sudheer Reddy J

NMIT, Bangalore.

SIGNATURE OF HOD

Head of the Department Dept. of Mechanical Engg. K.S. Institute of Technology Bengaluru 560 109

BENGALURU - 560 10s.