2019-20

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

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

DEPARTMENT OF MECHANICAL ENGINEERING

FDP: An Overview of Teaching Techniques in Strength of Materials/Mechanics of Materials

BROCHURE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ
"Jnana Sangama", Belagavi - 590 018, Karnataka State, INDIA
Phone : (0831) 2405468
Fax : (0831) 2405467
Email : registrar@vtu.ac.in
website : www.vtu.ac.in

Prof. A. S. Deshpande, B.E(Mech), M.Tech., Ph.D.
Registrar

Ref. No.: VTU/PS/2019-20/ 3470 Date: 19 AUG 2019

CIRCULAR

Sub: Deputation of faculty for the AICTE – VTU joint Training Program for Teachers in AICTE approved & VTU Affiliated Colleges between **26th–30th August 2019** at VTU, Centre for Post Graduate Studies, Muddenahalli - reg.
Ref: VTU, Centre for Post Graduate Studies, Muddenahalli E-mail dt: 19.08.2019

With reference to the above cited subject, this is to inform you that, All India Council for Technical Education, New Delhi (AICTE) and Visvesvaraya Technological University, Belagavi are jointly organizing the Training Program for Teachers in AICTE approved and VTU Affiliated Colleges on "**An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials**" between **26th – 30th August 2019** at **VTU Centre for Post Graduate Studies, Muddenahalli, Chickaballapur (Dist), Karnataka- 562 101.**

The objective of the training programs is to prepare them for being successful in a knowledge society.

There will be no Registration Fee. Free accommodation & food will be provided and TA will be provided for outstation participants as per norms of the program.

Eligibility: The Faculty Members who are handling Strength of Materials in Civil Engineering and Mechanics of Materials in Mechanical Engineering, Aeronautical/Aerospace Engineering and Automobile Engineering at UG level are eligible for participating in the Training Program.

Contact Details:

Dr. Thirtha Prasada H P	Mob: 9448212726
Dr.Ashwin C. Gowda	Mob: 9481372504
Mr.Narayana Swamy G	Mob: 9611001258

You are hereby requested to bring the contents of this circular to the notice of all the concerned faculty of your college and encourage them to participate in this Training Program.

By Order,
19.8.2019.
REGISTRAR

To,
All the Principals of Affiliated / Constituent Colleges

Copy to:
1. The Hon'ble Vice-Chancellor through his Secretary, VTU Belagavi.
2. The Finance Officer, VTU Belagavi.
3. The Regional Director (I/c), VTU, Regional Offices at Bangalore, Belagavi, Mysore & Gulbarga for information

.ICTE-VTU Joint Training Programme for Teachers from AICTE Approved & VTU Affiliated Technical Institutions

One Week Training Programme for Teachers

On

"An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials"

(A Training Programme for faculty Members of VTU Affiliated Institutions)

REGISTRATION FORM

ame: _____

Department: _____

_____

_____

_____

lobile: _____

mail: _____

Declaration by the Applicant

'selected, I agree to abide by the rules and regulations of e training programme of VTU-HRDC and shall attend all e sessions compulsorily.

ate: Signature of the Applicant

Recommended and Forwarded

Signature of the Head of the Institution

CHIEF PATRON

Dr. Karisiddappa
Hon'ble Vice Chancellor, VTU, Belagavi

PATRONS

Prof. Anand S. Deshpande
Registrar, VTU, Belagavi

Dr. Satish Annagiri
Registrar(Evaluation), VTU, Belagavi

Mrs. M. A. Sapna
Finance Officer, VTU, Belagavi

CONVENER

Dr. N Chikkanna
Coordinator, VTU CPGS, Muddenahalli

CO-CONVENERS

Dr. Thitha Prasada H.P,
Associate Professor, Dept. of CAE

Dr. Ashwin C. Gowda,
Assistant Professor, Dept. of CAE

Mr. Narayana Swamy G,
Assistant Professor, Dept. of CAE

DEPARTMENT COORDINATORS

Dr.G.S.Venkatesh, Prof. & Prog. Coordinator, Dept. of CAE
Dr. Basawaraj, Associate Professor, Dept. of APT
Mr. Sanjeev G Palekar, Asst. Professor, Dept. of APT

ORGANISING COMMITTEE

Dr. Indumathi, Professor & Prog. Coordinator, Dept. of DECS
Dr.Sarika Raga. Assoc. Professor & Prog. Coordinator, Dept. of DECS
Dr. Dinesh Rangappa, Professor & Prog. Coordinator, Dept. of NT
Dr. Shivamuthy G, Asso. Prof. & Prog. Coordinator Dept. of CSE
Dr. H.H. Ramesha, Associate Prof., Dept. of MBA,
Dr. Pankajakshi R, Assoc.Prof. & Prog. Coordinator, Dept. of MBA
Dr. Prassana D .S, Asst. Professor, Dept. of NT
Dr. Lokesh S V, Asst. Professor, Dept. of NT
Dr. Kanta D Devanagavi, Asst. Professor, Dept. of MCA
Dr. Roopadharshini S, Asst. Professor, Dept. of MBA
Mr. Purushotham C J, Asst. Professor, Dept. of MBA
Mr. Lakshminayana K, Asst. Professor, Dept. of MBA
Mrs. Niveditha M U, Asst. Professor, Dept. of MBA
Mrs. Veenarani K, Asst. Professor, Dept. of MBA
Mrs. Renuka Malge, Asst. Professor, Dept. of MCA
Mr. Vadhunaik B H, Asst. Professor, Dept. of MCA
Mr.Vinod Kumar G, Asst., VTU, Muddenahalli
Mr.Manjunath A.S, Jr. Assistant, VTU, Muddenahalli

AICTE-VTU Joint Training Programme for Teachers from AICTE Approved & VTU Affiliated Technical Institutions

One Week Training Programme for Teachers

On

"An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials"

26th - 30th AUGUST 2019

Organized by:

VTU- Human Resource Development Cell (HRDC)
Department of Computer Aided Engineering (CAE) & Aerospace Propulsion Technology (APT)
Visvesvaraya Technological University
Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101

Venue:

VTU Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101
Seminar Hall

About the VTU

Visvesvaraya Technological University (VTU) named 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.VTU has its Head Office located in Belagavi in the state of Karnataka. 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 emphasizes on the overall growth of knowledge in society and hence its campus in Belagavi is named aptly as "Jnana Sangama". The University has jurisdiction over the whole state of Karnataka. VTU has established four regional centers at Bengaluru, Mysuru, Kalaburagi and Belagavi for administrative convenience. VTU is one of the prestigious and largest technological Universities in the India having affiliation of 220 Engineering colleges and 20 Autonomous Colleges and one Constituent College.

VTU is imparting technical education to more than 4.5 lakh students under its 35 Undergraduate & 94 Postgraduate Programs. VTU is offering Doctoral programs 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. (Engg.) programs. VTU has established full-pledged Centers for Post Graduate Studies at Muddenahalli, Kalburgi, Belagavi and Mysuru.

About AICTE, 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 & standards
- Quality assurance through accreditation
- Funding in priority areas, monitoring, and evaluation
- Maintaining parity of certification & awards

About the VTU PG Centre, Muddenahalli

The Visvesvaraya Technological University, Post Graduate Center, Bengaluru Region, Muddenahalli has 200 acres campus located at Muddenahalli, Chikkaballapura (Dist). Muddenahalli is the birth 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. Center for PG Studies has five full time post graduate programs in M.Tech, MBA and MCA. All the departments have well qualified faculty.

About Computer Aided Engineering:

Department of Computer Aided Engineering (CAE) is established in the year 2011 with an intake of 25 students. Department has well experienced faculties to guide and motivate the young Engineers towards research in CAE to meet the present industrial demands.

About Aerospace Propulsion Technology:

M.Tech. in Aerospace Propulsion Technology (APT) is established in the year 2011 with an intake of 25 students. Department of APT provides a comprehensive background in the design and operation of different types of propulsion systems for aerospace applications. The course is designed for those seeking a carrier in the design, development, operation and maintenance of propulsion systems.

PROGRAMME OBJECTIVES:

The objective of the AICTE – VTU Training Progrmme is to conduct training for the faculty members to prepare them for being successful in a knowledge society and fulfill the following important Teaching Techniques in a subject.

- Understand the concepts of stress and strain at a point as well as the stress-strain relationships for homogenous, isotropic materials.
- To calculate the stresses and strains in axially-loaded members, circular torsion members, and members subject to flexural loadings.
- To calculate the stresses and strains associated with thin-wall spherical and cylindrical pressure vessels.
- To determine the stresses, strains and deflections produced in various members produced by applied loading.
- To provide training in a fundamental subject (mechanics and structural) necessary for careers mechanical, civil and aeronautical engineering fields.

PROGRAMME OUTCOME:

- Analyze and design structural members subjected to tension, compression, torsion, bending and combined stresses using the fundamental concepts of stress, strain and elastic behaviour of materials.
- Utilize appropriate materials in design considering engineering properties, sustainability, cost and weight.
- Perform engineering work in accordance with ethical and economic constraints related to the design of structures and machine parts.

Resource Persons:

Renowned Experts from reputed Institutions like IISc., Bengaluru, IIT's, NIT's and Senior Faculties of VTU.

Eligibility: Teachers from AICTE Approved and VTU Affiliated Technical Institutes are eligible to participate. Those who are handling Strength of Materials in Civil Engineering and Mechanics of Materials in Mechanical Engineering, Aeronautical/Aerospace Engineering and Automobile Engineering at UG level are eligible to participate

Registration Fee: There is no Registration Fee

Accommodation & Food: For Outstation Participant's free accommodation and for all participants Food will be provided in institute hostels.

TA will be provided to the outstation Participants as per the norms of the programme.

How to Apply:

Interested and eligible candidates may apply by mailing the soft copy of the filled in registration format given in this brochure to vtucpgsb@gmail.com on or before **23rd August 2019.**

Selection of the Participants:

AICTE-VTU Training Progrmme will be of FIVE Days residential programme with minimum 40 participants. Selection will be on first cum first serve basis. Selected candidates will be intimated by e-mail on **24th August 2019.**

Contact for Information:

Dr. Thirtha Prasada H P Mob: 9448212726
Dr.Ashwin C Gowda Mob: 9481372504
Mr.Narayana Swamy G Mob: 9611001258
Email: vtucpgsb@gmail.com

Visvesvaraya Technological University

Centre for Post Graduate Studies, Bangalore Region
Visvesvaraya Institute of Advanced Technology,
Muddenahalli, Chikkaballapur District -562 101

Dr. N.Chikkanna,
Co-ordinator

E-mail id:vtucpgsb@gmail.com

Schedule of the AICTE-VTU Joint Training Programme for Teachers from AICTE Approved & VTU Affiliated Technical Institutions

On

""An Overview of Teaching Techniques in Strength of Materials /Mechanics of Materials""

From 26th – 30th Aug 2019

Organized by:

VTU-HRDC at PG Center Muddenahalli, Chikkaballapur-562101

Day 1: 26/08/2019

Sl No.	Time	Topic/Event	Name of the speaker	Designation and Affiliation
1	9.00 AM -10.00 AM	Registration		
2	10.00 AM -11.00 AM	Inauguration		
	11.00 AM -11.15 AM	Tea Break		
3	11.15 AM - 12.00 PM	Stresses and Strains: Introduction, Properties of materials, Stress, Strain and Hooke's law, Stress strain diagram for brittle and ductile materials,	Dr. Shanmukha Nagaraj Phone 9845129398	Professor, department of Mechanical Engineering, RV College, Bangalore
4	12.15PM-1.15PM	True stress and strain, Calculation of stresses in straight, Stepped and tapered sections, Composite sections, Stresses due to temperature change,	Dr. Shanmukha Nagaraj	Professor, department of Mechanical Engineering, RV College, Bangalore
	1.15 PM -2.00 PM	Lunch Break		
5	2.00 PM -3.30 PM	Shear stress and strain, Lateral strain and Poisson's ratio,	Dr. Shanmukha Nagaraj	Professor, department of Mechanical Engineering, RV College, Bangalore
	3.30 PM -3.45 PM	Tea Break		
6	3.45 PM -5.00 PM	Elastic constants and relations between them	Dr. Shanmukha Nagaraj	Professor, department of Mechanical Engineering, RV College, Bangalore

Day 2: 27/08/2019

Sl No.	Time	Topic/Event	Name of the speaker	Designation and Affiliation
1	09.30 AM -11.30 AM	Deflection of Beams: Definition of slope, Deflection and curvature, Sign conventions, Derivation of momentcurvature equation.	Dr Satishchandra K T Phone 9844128713	Former Professor Department of Civil Engineering, RVCE, Bangalore
	11.30 AM -11.45 AM	Tea Break		
2	11.45 AM – 1.15 PM	Double integration method and Macaulay's method: Slope and deflection for standard loading cases and for determinate prismatic beams subjected to point loads, UDL, UVL and couple.	Dr Satishchandra K T	Former Professor Department of Civil Engineering, RVCE, Bangalore
	1.15 PM -2.00 PM			
3	2.00 PM -3.30 PM	Analysis of Stress and Strain: Introduction to three dimensional state of stress, Stresses on inclined planes,	Dr Siddaramappa V Itti Phone 9448157391	Principal and Professor Department of Civil Engineering, SGBIT Belagavi
	3.30-3.45 PM	Tea Break		
4	3.45 -5.00 PM	Principal stresses and maximum shear stress, Principal angles, Shear stresses on principal planes, Maximum shear tress, Mohr circle for plane stress conditions	Dr Siddaramappa V Itti	Principal and Professor Department of Civil Engineering, SGBIT Belagavi

Day 3: 28/08/2019

Sl. No.	Time	Topic/Event	Name of the speaker	Designation and Affiliation
1	09.30 AM -11.30 AM	Shear Force and Bending Moment: Type of beams, Loads and reactions, Relationship between loads.	Dr. P.L. Srinivasa Murthy Phone 9886265443	Associate Prof. DME, RIT, Bangalore
	11.30 AM -11.45 AM	Tea Break		
2	11.45 AM – 1.15PM	shear forces and bending moments, Shear force and bending moments of cantilever beams,	Dr. P.L. Srinivasa Murthy	Associate Prof. DME, RIT, Bangalore
	1.15PM -2.00 PM	Lunch Break		
3	2.00 PM -3.30 PM	Pin support and roller supported	Dr. P.L. Srinivasa	Associate Prof. DME, RIT, Bangalore

		beams subjected to concentrated loads, uniformly distributed constant / varying loads.	Murthy	
	3.30 PM -3.45 PM	Tea Break		
4	3.45 PM -5.00 PM	Stress in Beams: Bending and shear stress distribution in rectangular, I and T section beams.	Dr. P.L. Srinivasa Murthy	Associate Prof. DME, RIT, Bangalore

Day 4: 29/08/2019

Sl No.	Time	Topic/Event	Name of the speaker	Designation and Affiliation
1	09.30AM-11.30 AM	Torsion: Circular solid and hallow shafts, Torsional moment of resistance,	Dr. T krishna Rao Phone 9743711190	Professor and Head, Mechanical Engineering, Global Academy of Technology, Bangalore
	11.30AM-11.45 AM	Tea Break		
2	11.45 AM – 1.15 PM	Power transmission of straight and stepped shafts, Twist in shaft sections, Thin tubular sections, Thin walled sections Compound Stresses: Introduction, state of stress at a point,.	Dr. T krishna Rao	Professor and Head, Mechanical Engineering, Global Academy of Technology, Bangalore
	1.15PM-2.00 PM	Lunch Break		
3	2.00PM-3.30 PM	Columns and Struts: Introduction, short and long columns. Euler's theory; Assumptions	Dr. T krishna Rao	Professor and Head, Mechanical Engineering, Global Academy of Technology, Bangalore
	3.30PM-3.45 PM	Tea Break		
4	3.45PM -5.00 PM	Derivation for Euler's Buckling load for different end conditions, Limitations of Euler's theory. Rankine-Gordon's formula for colum	Dr. T krishna Rao	Professor and Head, Mechanical Engineering, Global Academy of Technology, Bangalore

Day 5: 30/07/2017

Sl No.	Time	Topic/Event	Name of the speaker	Designation and Affiliation
1	09.00AM-10.30 AM	Human Values and Professional Ethics	Dr KB Prakash Phone 9448267374	Principal Govt Engg college haveri
	10.30AM-10.45 AM	Tea Break		
	10.30AM-1.30 PM	Cylinders: Thin cylinder: Hoop's stress, maximum shear stress, circumferential and longitudinal strains,	Dr Sarnabasappa C Sajjan Phone 9611021801	Professor Department of Mechanical Engineering, KLE Hubli

		Thick cylinders: Lames equations.		
	1.30 PM -2.00 PM	Lunch Break		
	2.00-3.30 PM	Strain Energy: Strain energy due to axial, shear, bending, torsion and impact load. Castigliano's theorem I and II and their applications	Dr Sarnabasappa C Sajjan	Professor Department of Mechanical Engineering, KLE Hubli
3	3.30-4.30 PM	Human Values and Professional Ethics And TEST	Dr KB Prakash	
	4.30-500 PM	Valedictory		
4	5.00 PM	High Tea		

Report

Program Title: An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials

Duration: 26th – 30th August 2019

Conducted by: Visvesvaraya Technological University (VTU) - Human Resource Development Cell (HRDC)

Convener, Training Programme, VTU, CGPS, Muddenahalli: Dr. N. Chikkanna

Registrar: Dr. A S Deshpande

Program Venue: Centre for Post-Graduation Studies, Muddenahalli, VTU

Participant: Mr. Ranganath N. from KSIT, Bangalore

Program Synopsis: The FDP was a collaborative effort by VTU and AICTE to enhance the pedagogical skills of faculty members in engineering disciplines, focusing on the Strength of Materials and Mechanics of Materials. The program was meticulously designed to incorporate contemporary teaching methodologies tailored to these specialized subjects.

Objectives:

- To introduce innovative teaching techniques tailored for engineering materials.
- To improve educational strategies for delivering complex material concepts.
- To facilitate the exchange of teaching experiences among peers.

Outcomes: Participants were equipped with advanced teaching tools, interactive learning methods, and up-to-date knowledge on material sciences.

Program Content:

- Lectures by distinguished professors and industry experts.
- Interactive sessions with hands-on activities to encourage active learning.
- Discussions on challenges and best practices in teaching materials engineering.

Assessment: The attendees were evaluated based on participation, engagement in activities, and understanding of the workshop content.

Certification: The successful completion of the FDP by participants was commemorated with a certificate, duly signed by the program convener and VTU registrar.

Conclusion: The FDP has significantly contributed to the upskilling of faculty members in engineering disciplines, ensuring that they are well-prepared to train the next generation of engineers with an enhanced approach to teaching materials science.

SUBMITTED BY:

Ranganth.N

RANGANTH.N

AICTE – VTU Joint Training Programme for Teachers

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)

Centre for Post-Graduation Studies Muddenahalli, Chikkaballapur (Dist.) -562101

One Week Training Programme for Teachers

On

"An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials"

26th – 30th August 2019

Certificate

This is to certify that Mr. /Mrs. /Dr. /Prof. Ranganath. N. *of* KSIT, Bangalore. *has Participated and Successfully completed* **One Week AICTE – VTU Joint Training programme for Teachers** *on "An Overview of Teaching Techniques in Strength of Materials / Mechanics of Materials" on 26th to 30th August 2019 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist.)- 562101*

Dr. N. Chikkanna
Convener, Training Programme
VTU, CPGS, Muddenahalli

Prof. A. S. Deshpande
Registrar
VTU, Belagavi

SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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

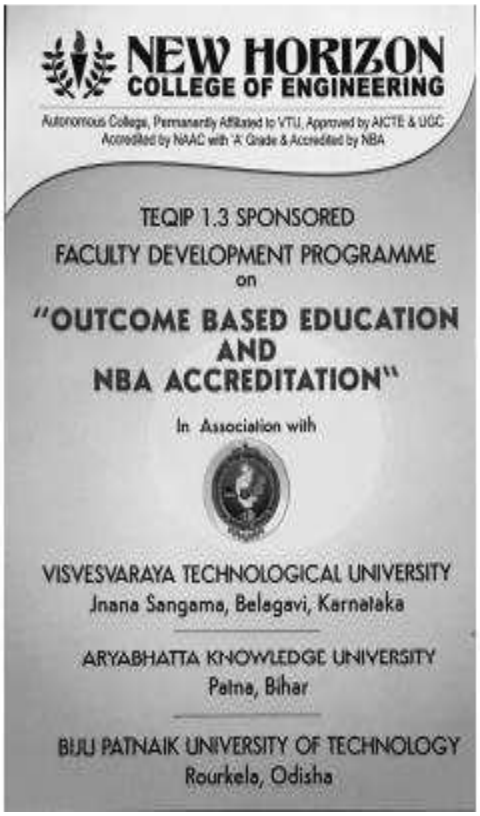
K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

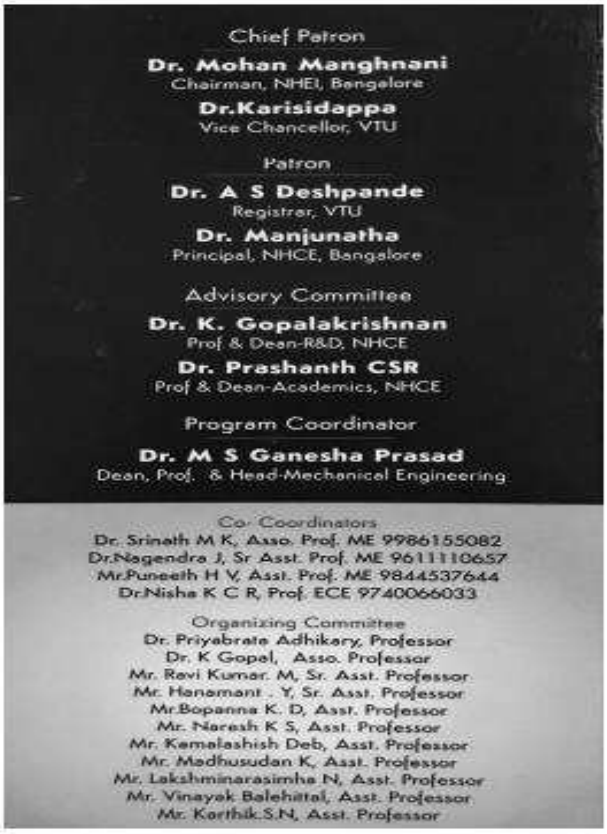
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Broucher





Report

Faculty Development Program (FDP) Report

Title: : "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Date: 28th January 2020 to 1st February 2020

Organized by: NEW HORIZON COLLEGE OF ENGINEERING,Visvesvaraya Technological University,

Participant: BHARAT KUMAR of KSIT, PARASHURAM.B.K of KSIT,

SUMMARY

About the Workshop Outcome – Based Education is being practiced at global level to ensure the quality of education in institutions of higher learning at the tertiary level. OBE is an educational philosophy where in student-centric learning approaches are used to

measure student's performance based on predetermined set of expected outcomes. In this context, outcomes are defined as a set of values or attributes that a student should acquire through the educational process. OBE is based on developing an educational system around goals. Outcomes-based education has a number of advantages for instructors, educational developers, administrator

Objectives

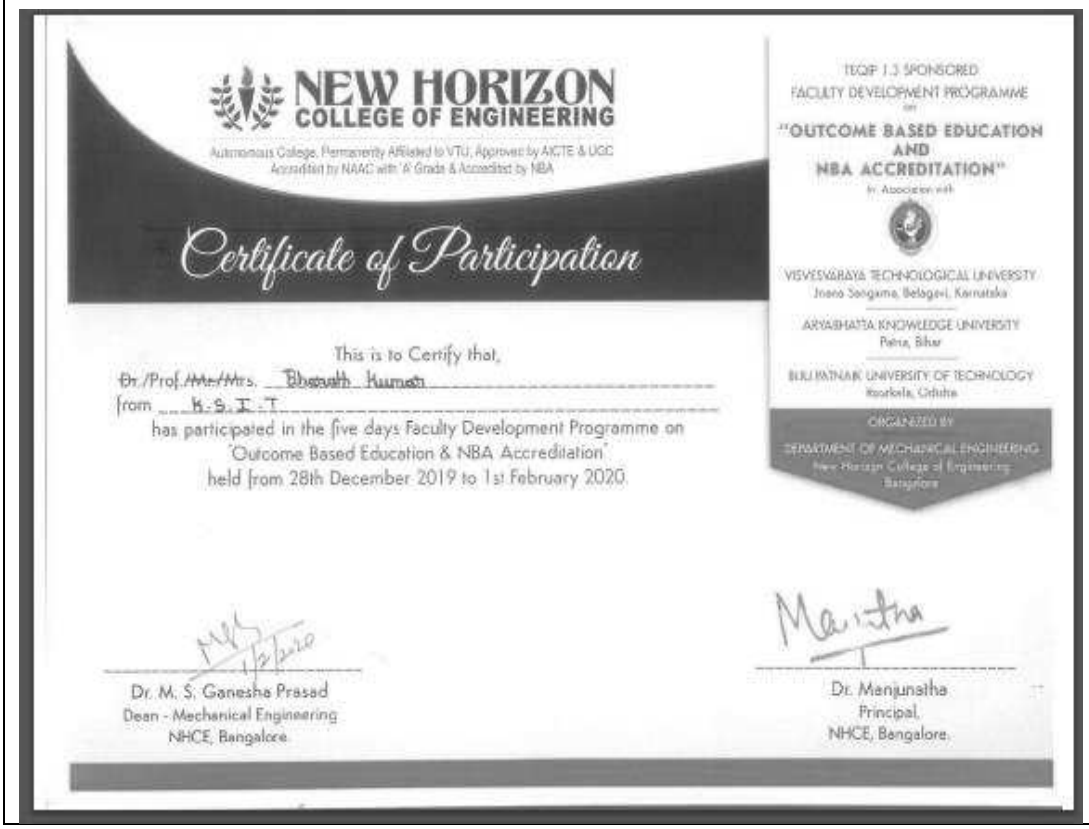
- Providing a strategic way to enhance the quality of teaching and learning;
- Helping to ensure the approval and accreditation of new and existing programs;
- Providing a mechanism for ensuring accountability and quality assurance;
- Helping students to take responsibility for their own learning;
- Providing a means for students to articulate the knowledge, skills and experience acquired during their program.
- Providing a framework for collaborative curriculum planning

Topics to be covered:

- Overview of OBE, Vision, Mission and PEO's
- Framing Quality CO's
- CO - PO Mapping
- CO - PO Computation & Attainment • Assessment Methods
- Course Files and documentation • Continuous Improvement
- Professional Activities
- Use of Modern Tools in Teaching Learning Process
- Best Practices in Teaching Learning Process

SUBMITTED BY:

BHARAT KUMAR


NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College, Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

Certificate of Participation

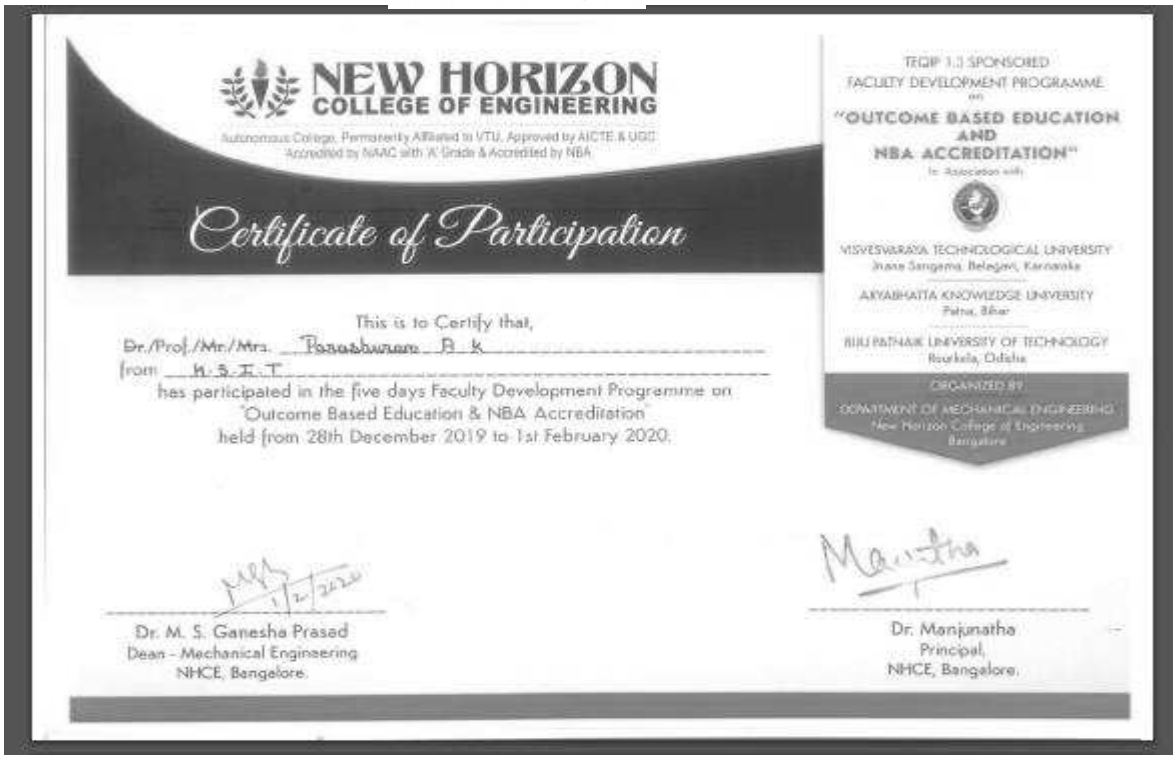
This is to Certify that,
Dr./Prof./Mr./Mrs. Bhavath Kumar
from N.S.I.T
has participated in the five days Faculty Development Programme on
"Outcome Based Education & NBA Accreditation"
held from 28th December 2019 to 1st February 2020.

TEQIP 1.3 SPONSORED
FACULTY DEVELOPMENT PROGRAMME
on
"OUTCOME BASED EDUCATION AND NBA ACCREDITATION"
In Association with
VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi, Karnataka
ARYABHATTA KNOWLEDGE UNIVERSITY
Patna, Bihar
BIJU PATNAIK UNIVERSITY OF TECHNOLOGY
Rourkela, Odisha
ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING
New Horizon College of Engineering
Bangalore

Dr. M. S. Ganesha Prasad
Dean - Mechanical Engineering
NHCE, Bangalore

Dr. Manjunatha
Principal,
NHCE, Bangalore.

PARASHURAM.B.K Parashuram



NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College, Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

Certificate of Participation

TEQIP 1.1 SPONSORED
FACULTY DEVELOPMENT PROGRAMME
on
"OUTCOME BASED EDUCATION AND NBA ACCREDITATION"
In Association with

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangama, Belagavi, Karnataka

ARYABHATTA KNOWLEDGE UNIVERSITY
Patna, Bihar

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY
Rourkela, Odisha

ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING
New Horizon College of Engineering
Bangalore

This is to Certify that,
Dr./Prof./Mr./Mrs. Parashuram B K
from N.S.I.T.
has participated in the five days Faculty Development Programme on
"Outcome Based Education & NBA Accreditation"
held from 28th December 2019 to 1st February 2020.

1/2/2020
Dr. M. S. Ganesha Prasad
Dean - Mechanical Engineering
NHCE, Bangalore.

Dr. Manjunatha
Principal,
NHCE, Bangalore.

SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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

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

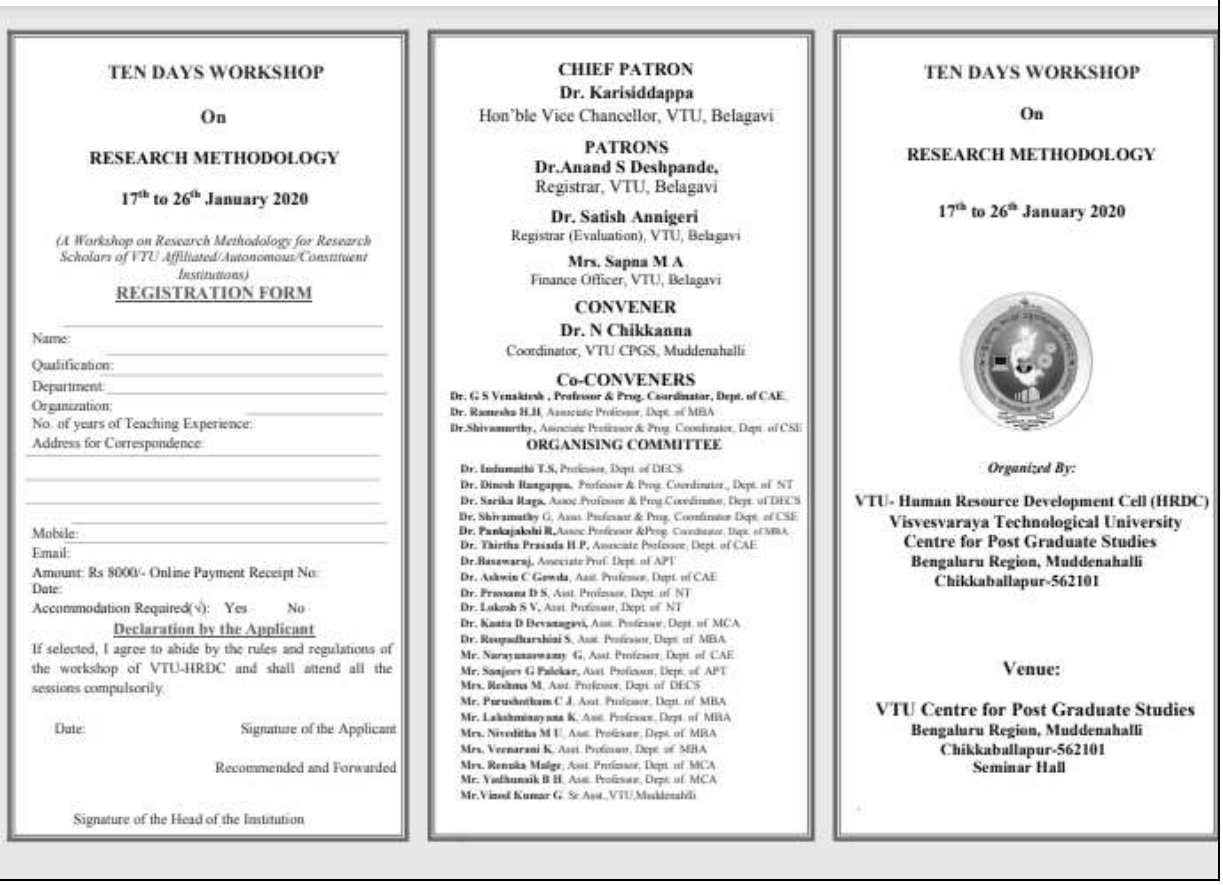
K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

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

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: TEN DAYS WORKSHOP On RESEARCH METHODOLOGY

Broucher



TEN DAYS WORKSHOP

On

RESEARCH METHODOLOGY

17th to 26th January 2020

(A Workshop on Research Methodology for Research Scholars of VTU Affiliated/Autonomous/Constituent Institutions)

REGISTRATION FORM

Name:
Qualification:
Department:
Organization:
No. of years of Teaching Experience:
Address for Correspondence:

Mobile:
Email:
Amount: Rs 8000/- Online Payment Receipt No:
Date:
Accommodation Required(√): Yes No

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop of VTU-HRDC and shall attend all the sessions compulsorily.

Date: Signature of the Applicant

Recommended and Forwarded

Signature of the Head of the Institution

CHIEF PATRON
Dr. Karisiddappa
Hon'ble Vice Chancellor, VTU, Belagavi

PATRONS
Dr.Anand S Deshpande,
Registrar, VTU, Belagavi

Dr. Satish Annigeri
Registrar (Evaluation), VTU, Belagavi

Mrs. Sapna M A
Finance Officer, VTU, Belagavi

CONVENER
Dr. N Chikkanna
Coordinator, VTU CPGS, Muddenahalli

Co-CONVENERS
Dr. G S Venaktesh , Professor & Prog. Coordinator, Dept. of CAE.
Dr. Ramesha H.H, Associate Professor, Dept. of MBA
Dr.Shivamurthy, Associate Professor & Prog. Coordinator, Dept. of CSE

ORGANISING COMMITTEE

Dr. Indumathi T.S, Professor, Dept. of DECS
Dr. Dinesh Hangappa, Professor & Prog. Coordinator., Dept. of NT
Dr. Sarika Raga, Assoc.Professor & Prog.Coordinator, Dept. of DECS
Dr. Shivamurthy G, Asso. Professor & Prog. Coordinator Dept. of CSE
Dr. Pankajakshi R, Assoc.Professor &Prog. Coordinator, Dept. of MBA
Dr. Thirtha Prasada H P, Associate Professor, Dept. of CAE
Dr.Basawaraj, Associate Prof. Dept. of APT
Dr. Ashwin C Gowda, Asst. Professor, Dept. of CAE
Dr. Prasanna D S, Asst. Professor, Dept. of NT
Dr. Lokesh S V, Asst. Professor, Dept. of NT
Dr. Kanta D Devanagavi, Asst. Professor, Dept. of MCA
Dr. Roopadharshini S, Asst. Professor, Dept. of MBA
Mr. Narayanaswamy G, Asst. Professor, Dept. of CAE
Mr. Sanjeev G Palekar, Asst. Professor, Dept. of APT
Mrs. Reshma M, Asst. Professor, Dept. of DECS
Mr. Purushotham C J, Asst. Professor, Dept. of MBA
Mr. Lakshminayana K, Asst. Professor, Dept. of MBA
Mrs. Niveditha M U, Asst. Professor, Dept. of MBA
Mrs. Veenarani K, Asst. Professor, Dept. of MBA
Mrs. Renuka Malge, Asst. Professor, Dept. of MCA
Mr. Yadhunaik B H, Asst. Professor, Dept. of MCA
Mr.Vinod Kumar G, Sr.Asst.,VTU,Muddenahlli

TEN DAYS WORKSHOP

On

RESEARCH METHODOLOGY

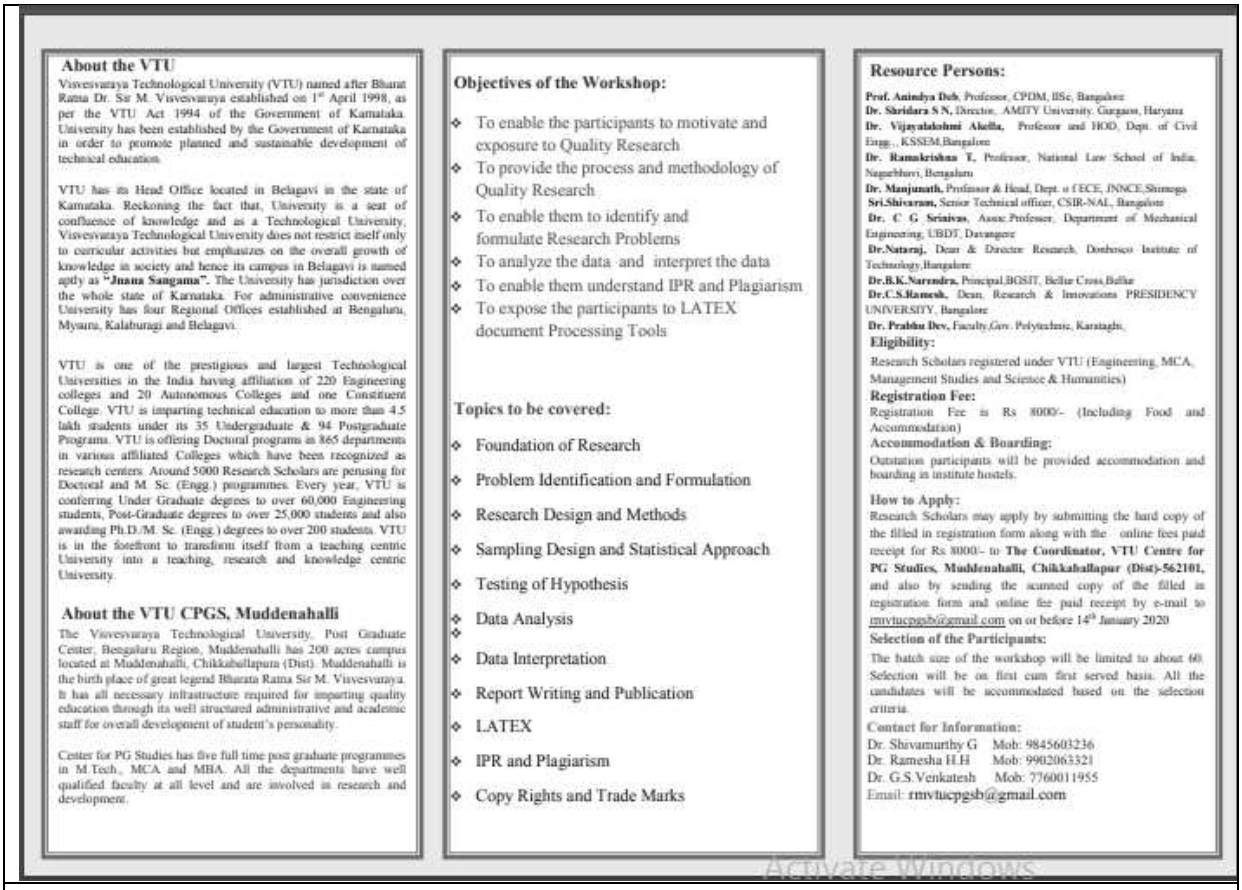
17th to 26th January 2020

Organized By:

VTU- Human Resource Development Cell (HRDC)
Visvesvaraya Technological University
Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101

Venue:

VTU Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101
Seminar Hall



About the VTU

Visvesvaraya Technological University (VTU) named 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.

VTU has its Head Office located in Belagavi in the state of Karnataka. 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 emphasizes on the overall growth of knowledge in society and hence its campus in Belagavi is named aptly as **"Jnana Sangama"**. The University has jurisdiction over the whole state of Karnataka. For administrative convenience University has four Regional Offices established at Bengaluru, Mysuru, Kalaburagi and Belagavi.

VTU is one of the prestigious and largest Technological Universities in the India having affiliation of 220 Engineering colleges and 20 Autonomous Colleges and one Constituent College. VTU is imparting technical education to more than 4.5 lakh students under its 35 Undergraduate & 94 Postgraduate Programs. VTU is offering Doctoral programs 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. (Engg.) programmes. Every year, VTU is conferring Under Graduate degrees to over 60,000 Engineering students, Post-Graduate degrees to over 25,000 students and also awarding Ph.D./M. Sc. (Engg.) degrees to over 200 students. VTU is in the forefront to transform itself from a teaching centric University into a teaching, research and knowledge centric University.

About the VTU CPGS, Muddenahalli

The Visvesvaraya Technological University, Post Graduate Center, Bengaluru Region, Muddenahalli has 200 acres campus located at Muddenahalli, Chikkaballapura (Dist). Muddenahalli is the birth 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.

Center for PG Studies has five full time post graduate programmes in M.Tech., MCA and MBA. All the departments have well qualified faculty at all level and are involved in research and development.

Objectives of the Workshop:

- To enable the participants to motivate and exposure to Quality Research
- To provide the process and methodology of Quality Research
- To enable them to identify and formulate Research Problems
- To analyze the data and interpret the data
- To enable them understand IPR and Plagiarism
- To expose the participants to LATEX document Processing Tools

Topics to be covered:

- Foundation of Research
- Problem Identification and Formulation
- Research Design and Methods
- Sampling Design and Statistical Approach
- Testing of Hypothesis
- Data Analysis
- Data Interpretation
- Report Writing and Publication
- LATEX
- IPR and Plagiarism
- Copy Rights and Trade Marks

Resource Persons:

Prof. Anindya Deb, Professor, CPDM, IISc, Bangalore
Dr. Shridara S N, Director, AMITY University, Gurgaon, Haryana
Dr. Vijayalakshmi Akella, Professor and HOD, Dept. of Civil Engg., KSSEM,Bangalore
Dr. Ramakrishna T, Professor, National Law School of India, Nagarbhavi, Bengaluru
Dr. Manjunath, Professor & Head, Dept. of ECE, JNNCE,Shimoga
Sri.Shivaram, Senior Technical officer, CSIR-NAL, Bangalore
Dr. C G Srinivas, Assoc Professor, Department of Mechanical Engineering, UBDT, Davangere
Dr.Nataraj, Dean & Director Research, Donbosco Institute of Technology,Bangalore
Dr.B.K.Narendra, Principal,BGSIT, Bellur Cross,Bellur
Dr.C.S.Ramesh, Dean, Research & Innovations PRESIDENCY UNIVERSITY, Bangalore
Dr. Prabhu Dev, Faculty,Gov. Polytechnic, Karatagi.

Eligibility:

Research Scholars registered under VTU (Engineering, MCA, Management Studies and Science & Humanities)

Registration Fee:

Registration Fee is Rs 8000/- (Including Food and Accommodation)

Accommodation & Boarding:

Outstation participants will be provided accommodation and boarding in institute hostels.

How to Apply:

Research Scholars may apply by submitting the hard copy of the filled in registration form along with the online fees paid receipt for Rs 8000/- to **The Coordinator, VTU Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist)-562101,** and also by sending the scanned copy of the filled in registration form and online fee paid receipt by e-mail to rmvtucpgsb@gmail.com on or before 14th January 2020

Selection of the Participants:

The batch size of the workshop will be limited to about 60. Selection will be on first cum first served basis. All the candidates will be accommodated based on the selection criteria.

Contact for Information:

Dr. Shivamurthy G Mob: 9845603236
Dr. Ramesha H.H Mob: 9902063321
Dr. G.S.Venkatesh Mob: 7760011955
Email: rmvtucpgsb@gmail.com

Activate Windows

Report

Faculty Development Program (FDP) Report

Title: : TEN DAYS WORKSHOP On RESEARCH METHODOLOGY

Date: 17th to 26th January 2020

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.Anand S Deshpande, Registrar, VTU, Belagavi

Participant: HARISH.U of KSIT

Summary

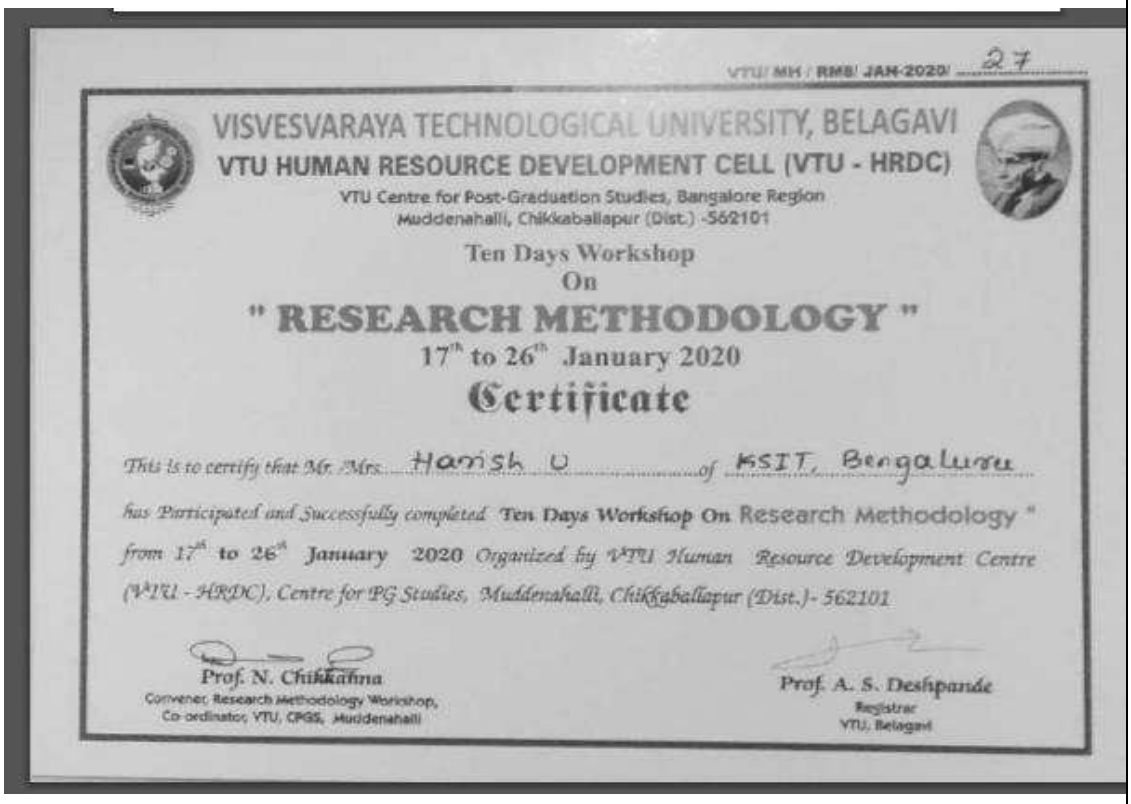
 To enable the participants to motivate and exposure to Quality Research
 To provide the process and methodology of Quality Research
  To enable them to identify and formulate Research Problems
 To analyze the data and interpret the data
 To enable them understand IPR and Plagiarism
 To expose the participants to LATEX document Processing Tools of specializations; and to ensure development of these capabilities among the learners. In addition, the module aim sat enabling the teachers to undertake research to improve the relevance, efficiency and effectiveness of various sub-components of technical education system.

Topics to be covered:

- Foundation of Research
- Problem Identification and Formulation
- Research Design and Methods
- Sampling Design and Statistical Approach
- Testing of Hypothesis
- Data Analysis
- Data Interpretation
- Report Writing and Publication
- LATEX
- IPR and Plagiarism
- Copy Rights and Trade Marks

SUBMITTED BY:

HARISH .U



VTU/ MH / RMS/ JAN-2020/ 27

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

VTU HUMAN RESOURCE DEVELOPMENT CELL (VTU - HRDC)

VTU Centre for Post-Graduation Studies, Bangalore Region
Muddenahalli, Chikkaballapur (Dist.) -562101

Ten Days Workshop
On

" RESEARCH METHODOLOGY "

17th to 26th January 2020

Certificate

This is to certify that Mr./Mrs. Harish U of KSIT, Bengaluru has Participated and Successfully completed Ten Days Workshop On Research Methodology " from 17th to 26th January 2020 Organized by VTU Human Resource Development Centre (VTU - HRDC), Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist.)- 562101

Prof. N. Chikkanna
Convener, Research Methodology Workshop,
Co-ordinator, VTU, CPGS, Muddenahalli

Prof. A. S. Deshpande
Registrar
VTU, Belagavi

SIGNATURE OF HOD

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

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

SIGNATURE OF 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 MECHANICAL ENGINEERING

REPORT OF FDP: "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Report
Faculty Development Program (FDP) Report

Title: : "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Date: 13-01-2020 to18-01-2020

Organized by:, JYOTHY INSTITUTE OF TECHNOLOGY ,Visvesvaraya Technological University,

Participant: Mr PRASAD.K of KSIT, **GIRISH.T.R** of KSIT

SUMMARY

This five-day Faculty Development Program comprises 10 Lecture Sessions, for the participants to understand key components of Outcome-Based Education (OBE) and Accreditation – Vision, Mission, Program Outcomes, Program Educational Objectives (PEO), Program Specific Outcomes (PSO) and Graduate Attributes (GA). The participants will be equipped to prepare Self-Assessment Report (SAR) of the Program of their College and documents related to OBE and to set up a process for continuous improveme

Objectives

To understand the relevance of Outcome-Based Education, usefulness of Accreditation and processes associated with Accreditations.

Topics to be covered:

Understand the Importance of Outcome-Based Education and Accreditation
Ø Gather the Pre qualifier for Accreditation
Ø Assimilate the Formulation of Vision and Mission of the College and Department
Ø Understand Revised Bloom Taxonomy and implementation in Teaching-Learning process
Ø Understand Course outcomes, Program Outcomes, Program Educational Objectives, Program Specific Outcomes and Graduate Attributes
Ø Establish the correlation between COs and Pos and PSOs
Ø Calculate the attainment of COs, POs, PSOs, PEOs
Ø Understand the Calculation of success rate of students Ø Perceive Curricular gaps, attainment gaps, and conceive plan to bridge the gap for continuous improvement.
Ø Prepare Self Assessment Report and Documents for Accreditation

BY: Mr PRASAD.K

JYOTHY INSTITUTE OF TECHNOLOGY
off Kanakapura Road, Thataguni. Bengaluru - 560082

CERTIFICATE

This is to certify that

Dr./Mr./Ms. Prasad K has participated in VTU-TEQIP 1.3 sponsored five days national workshop on Outcome Based Education and NBA accreditation

From : 13.01.2020 to 18.01.2020

Coordinator Principal

Activate Windows

Mr GIRISH.T.R

JYOTHY INSTITUTE OF TECHNOLOGY
off Kanakapura Road, Thataguni. Bengaluru - 560082

CERTIFICATE

This is to certify that

Dr./Mr./Ms. Girish. T. R has participated in VTU-TEQIP 1.3 sponsored five days national workshop on Outcome Based Education and NBA accreditation

From : 13.01.2020 to 18.01.2020

Coordinator Principal

Activate Windows

SIGNATURE OF HOD

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

SIGNATURE OF PRINCIPAL

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

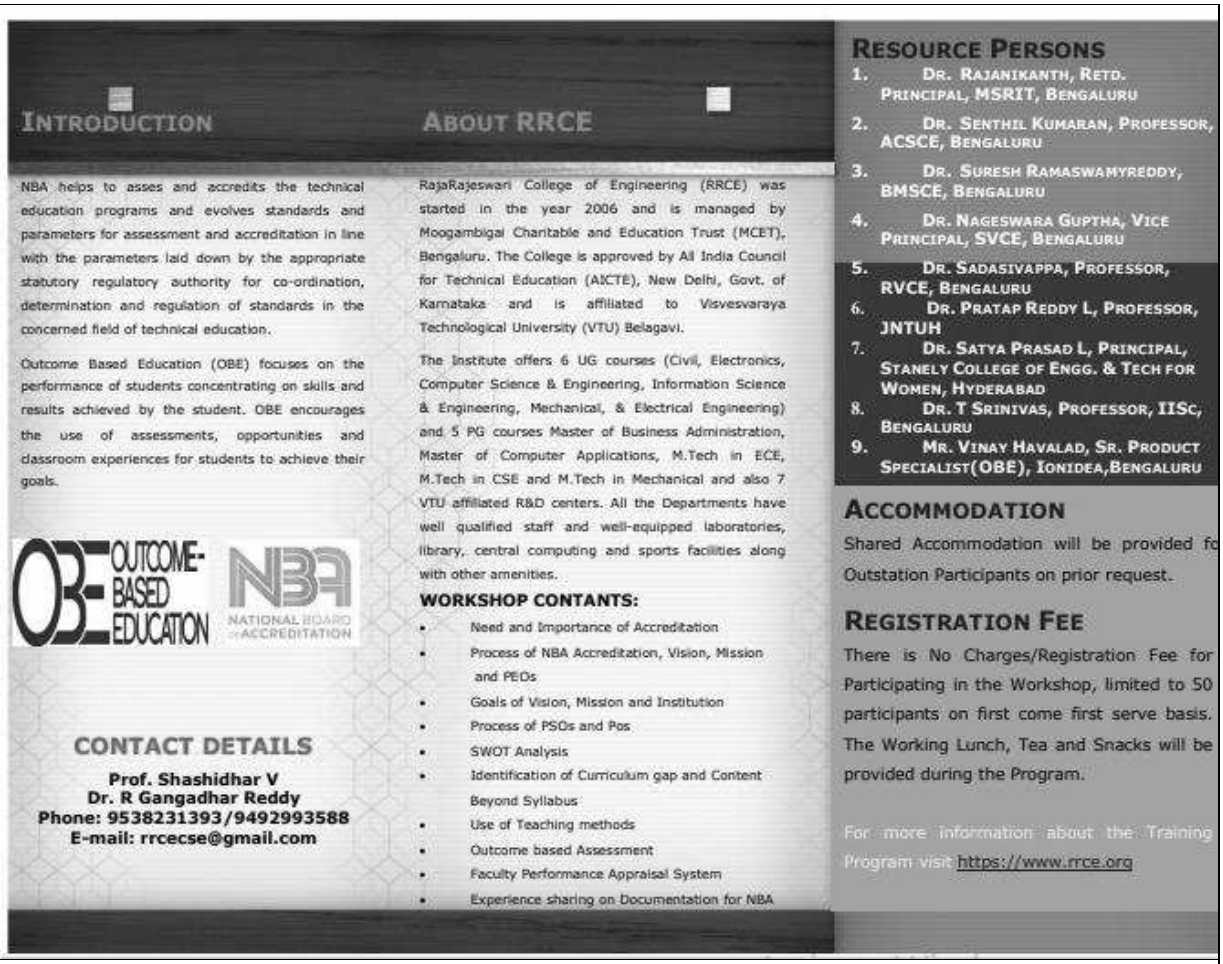
K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

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

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF FDP: "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Broucher



INTRODUCTION

NBA helps to asses and accredits the technical education programs and evolves standards and parameters for assessment and accreditation in line with the parameters laid down by the appropriate statutory regulatory authority for co-ordination, determination and regulation of standards in the concerned field of technical education.

Outcome Based Education (OBE) focuses on the performance of students concentrating on skills and results achieved by the student. OBE encourages the use of assessments, opportunities and classroom experiences for students to achieve their goals.

OBE OUTCOME-BASED EDUCATION

NBA NATIONAL BOARD OF ACCREDITATION

CONTACT DETAILS

Prof. Shashidhar V
Dr. R Gangadhar Reddy
Phone: 9538231393/9492993588
E-mail: rrcecse@gmail.com

ABOUT RRCE

RajaRajeswari College of Engineering (RRCE) was started in the year 2006 and is managed by Moogambigai Charitable and Education Trust (MCET), Bengaluru. The College is approved by All India Council for Technical Education (AICTE), New Delhi, Govt. of Karnataka and is affiliated to Visvesvaraya Technological University (VTU) Belagavi.

The Institute offers 6 UG courses (Civil, Electronics, Computer Science & Engineering, Information Science & Engineering, Mechanical, & Electrical Engineering) and 5 PG courses Master of Business Administration, Master of Computer Applications, M.Tech in ECE, M.Tech in CSE and M.Tech in Mechanical and also 7 VTU affiliated R&D centers. All the Departments have well qualified staff and well-equipped laboratories, library, central computing and sports facilities along with other amenities.

WORKSHOP CONTANTS:

- Need and Importance of Accreditation
- Process of NBA Accreditation, Vision, Mission and PEOs
- Goals of Vision, Mission and Institution
- Process of PSOs and Pos
- SWOT Analysis
- Identification of Curriculum gap and Content Beyond Syllabus
- Use of Teaching methods
- Outcome based Assessment
- Faculty Performance Appraisal System
- Experience sharing on Documentation for NBA

RESOURCE PERSONS

1. Dr. Rajanikanth, Retd. Principal, MSRIT, Bengaluru
2. Dr. Senthil Kumaran, Professor, ACSCE, Bengaluru
3. Dr. Suresh Ramaswamyreddy, BMSCE, Bengaluru
4. Dr. Nageswara Guptha, Vice Principal, SVCE, Bengaluru
5. Dr. Sadasivappa, Professor, RVCE, Bengaluru
6. Dr. Pratap Reddy L, Professor, JNTUH
7. Dr. Satya Prasad L, Principal, Stanely College of Engg. & Tech for Women, Hyderabad
8. Dr. T Srinivas, Professor, IISc, Bengaluru
9. Mr. Vinay Havalad, Sr. Product Specialist(OBE), Ionidea,Bengaluru

ACCOMMODATION

Shared Accommodation will be provided fo Outstation Participants on prior request.

REGISTRATION FEE

There is No Charges/Registration Fee for Participating in the Workshop, limited to 50 participants on first come first serve basis. The Working Lunch, Tea and Snacks will be provided during the Program.

For more information about the Training Program visit https://www.rrce.org

Report

Faculty Development Program (FDP) Report

Title: : "OUTCOME BASED EDUCATION AND NBA ACCREDITATION"

Date: 20-01-2020 to 24-01-2020

Organized by:, RAJARAJESWARI COLLEGE OF ENGINEERING ,Visvesvaraya Technological University,

Participant: Mr ANIL KUMAR.A of KSIT,

SUMMARY

This five-day Faculty Development Program comprises 10 Lecture Sessions, for the participants to understand key components of Outcome-Based Education (OBE) and Accreditation – Vision, Mission, Program Outcomes, Program Educational Objectives (PEO), Program Specific Outcomes (PSO) and Graduate Attributes (GA). The participants will be equipped to prepare Self-Assessment Report (SAR) of the Program of their College and documents related to OBE and to set up a process for continuous improveme

Objectives

To understand the relevance of Outcome-Based Education, usefulness of Accreditation and processes associated with Accreditations.

Topics to be covered:

Understand the Importance of Outcome-Based Education and Accreditation

Ø Gather the Pre qualifier for Accreditation

Ø Assimilate the Formulation of Vision and Mission of the College and Department

Ø Understand Revised Bloom Taxonomy and implementation in Teaching-Learning process
Ø Understand Course outcomes, Program Outcomes, Program Educational Objectives, Program Specific Outcomes and Graduate Attributes
Ø Establish the correlation between COs and Pos and PSOs
Ø Calculate the attainment of COs, POs, PSOs, PEOs
Ø Understand the Calculation of success rate of students Ø Perceive Curricular gaps, attainment gaps, and conceive plan to bridge the gap for continuous improvement.
Ø Prepare Self Assessment Report and Documents for Accreditation

SUBMITTED BY:

Mr ANIL KUMAR.A

Moogambigai Charitable and Educational Trust

RAJARAJESWARI COLLEGE OF ENGINEERING

No. 14, Ramohalli Cross, Mysore Road, Bengaluru, Karnataka-560074
(Affiliated to VTU, Belagavi, Approved by AICTE & Govt. of Karnataka)

CERTIFICATE

(20th - 24th JANUARY, 2020)

This is to certify that Dr./Mr./Mrs./Ms. Anil Kumar A of K.S. Institute of Technology, Bengaluru has successfully completed Five day's Training Program on "Outcome Based Education(OBE) and NBA Accreditation" during 20th - 24th January, 2020 sponsored by VTU TEQIP 1.3. In association with

Dr. Usha S
Program Coordinator

Dr. L Rangaiah
Program Coordinator

Dr. T Chandrashekar
Chair Person

SIGNATURE OF HOD

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

SIGNATURE OF 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 APPLIED SCIENCE AND HUMANITIES

REPORT OF FDP:

"LaTex"

Brochure:

Gopalan College of Engineering and Management

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and ISO 9001:2015)

The GCEM under the aegis of IQAC organizing online development programme for faculty members on **LaTeX** in association with IITB-ST during the lockdown period.

Two Weeks Faculty Development Program (FDP) on LaTeX

In Association with IIT Bombay (Remote Learning through IIT Bombay-Spoken Tutorial)

Last date for Registration is 15th April, 2020.

17th April - 30th April, 2020

Dr.J.Somasekar
Convenor

Dr.N.Sengottaiyan
Principal

https://www.gopalancolleges.com/gcem/

For further details Contact jsomasekar@gmail.com

Report

Faculty Development Program (FDP) Report

Title: LaTex

Date: 17th April 2020 to 30th April 2020, Gopalan College of Engineering & Management, Bangalore.

Participants: 1) Mrs. Lakshmi C

Summary:

The Faculty Development Program (FDP) on LaTeX offers participants an opportunity to gain proficiency in one of the most powerful typesetting systems widely used for academic and technical documents.

The Faculty Development Program on LaTeX introduces participants to the versatile typesetting system renowned for its precision, professionalism, and versatility in producing high-quality documents. LaTeX is particularly popular in academia and technical fields for its ability to handle complex mathematical equations, bibliographies, and formatting requirements with ease.

Objectives of the FDP

The objective of the Faculty Development Program on LaTeX is to equip participants with the knowledge, skills, and confidence to effectively utilize LaTeX as a typesetting system for creating professional-quality documents, such as research papers, theses, reports, and presentations. Through hands-on training and practical exercises, this program aims to enhance participants' proficiency in LaTeX, enabling them to produce documents with precision, clarity, and efficiency, thereby enhancing their scholarly output and professional communication in academia and technical fields.

Submitted by

GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and ISO 9001:2015 Certified)
181/1, 182/1, Sonnenahalli, Hoodi, K.R.Puram, Whitefield, Bangalore, Karnataka - 048

FACULTY DEVELOPMENT PROGRAMME

ON

LaTeX

CERTIFICATE OF PARTICIPATION AND COMPLETION

This is to certify that Mr./Ms./Dr./Prof. Lakshmi C of K.S.INSTITUTE OF TECHNOLOGY,BENGALURU. has actively participated in Two Weeks Faculty Development Programme (FDP) on **LaTeX** from 17.04.2020 to 30.04.2020 organised by Department of CSE, Gopalan College of Engineering and Management in association with **IIT Bombay-Spoken Tutorial** and successfully cleared LaTeX exam.

Dr.J.Somasekar	Ms.Priyanka Shroff	Dr.N.Sengottaiyan
Convenor	*IITB-ST Training Manager*	*Principal, GCEM*

Mrs. Lakshmi C

SIGNATURE OF HOD

Head of the Department
Dept. of Science and Humanities
K.S. Institute of Technology
Bengaluru - 560 109

SIGNATURE OF PRINCIPAL

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

K.S.INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Machine Learning and Research Opportunities

Venue: Sapthagiri College of Engineering **Date: 15-06-2020 to 19-06-2020**

I, **Mr. Kumar K, Assistant Professor**, **Mr.Prashanth H S , Assistant Professor**, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "**Machine Learning and Research Opportunities**" at Sapthagiri College of Enineering from 15th to 19th 2020.

About FDP

National Level online Five Days Faculty Development Programme on "Machine Learning and Research Opportunities" in collaboration with External Resource persons was organized at Sapthagiri College of Engineering, Bangalore from 15- 19 June, 2020. This programme was a combination of theoretical Talks & Hands-On experiments. This FDP aims to provide opportunities to faculty members to enrich their technical knowledge in the field of Machine Learning.

The Programme also intends to develop the knowledge of participants for ML Program Design & Development in the relevant field for inculcating learning values in students. The Programme also intends to develop the culture in participants for motivation the relevant field for inculcating learning values in students and guiding and monitoring their progress.

The FDP was attended by faculty members of Computer Science and Engineering, Information Science and Engineering, Electronics & Communication Engineering, Electrical Engineering, Mechanical Engineering & Physics.

Signature of Faculty

HOD

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

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

Principal

SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU-57

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NATIONAL LEVEL ONLINE 5 DAYS FDP ON "MACHINE LEARNING AND RESEARCH OPPORTUNITIES"

CERTIFICATE OF PARTICIPATION

This is to certify that Dr/Mr/Ms/Mrs. **KUMAR K**
from **K S INSTITUTE OF TECHNOLOGY**
has participated in **NATIONAL LEVEL ONLINE 5 DAYS FDP ON "MACHINE LEARNING AND RESEARCH OPPORTUNITIES"** from **15-06-2020 to 19-06-2020**.

Prof.Suriya Prakash.J
Prof.Madhushree
Prof.Nanda M B
COORDINATORS

Dr. Kamalakshi Naganna
HOD,CSE

Dr. H RamaKrishna
PRINCIPAL

SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU-57

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NATIONAL LEVEL ONLINE 5 DAYS FDP ON "MACHINE LEARNING AND RESEARCH OPPORTUNITIES"

CERTIFICATE OF PARTICIPATION

This is to certify that Dr/Mr/Ms/Mrs. **PRASHANTH H S**
from **K S INSTITUTE OF TECHNOLOGY**
has participated in **NATIONAL LEVEL ONLINE 5 DAYS FDP ON "MACHINE LEARNING AND RESEARCH OPPORTUNITIES"** from **15-06-2020 to 19-06-2020.**

Prof.Suriya Prakash.J
Prof.Madhushree
Prof.Nanda M B
COORDINATORS

Dr. Kamalakshi Naganna
HOD,CSE

Dr. H RamaKrishna
PRINCIPAL

K.S.INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Internet of Things

Date: 15-04-2020 to 19-04-2020

National Institute of
Technical Teachers Training and Research
Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

NATIONAL WORKSHOP
ON
"INTERNET OF THINGS (IoT)"

Ms.Ranjitha K N , Professor & HOD, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "**Internet of Things**" National Institute of Technical Teachers Training and Research from 15-04-2020 to 19-04-2020.

About FDP

The aim of this programme is to introduce the participants to the amazing world of IoT and its fascinating applications.

IoT is the idea of making devices and objects smarter by linking them to the internet. This technology frontier(IoT) with immense engineering applications is the need for today's industry and academia.

FDP serves as a platform to train and educate the research scholars, faculty, and people from industry to interact on cutting edge technologies in this emerging area..

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

Signature of Faculty

HOD

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

Principal

Certificate No: ICT-1845/20

National Institute of Technical Teachers Training and Research
Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

Certificate

This is to certify that

RANJITHA K N

K.S. INSTITUTE OF TECHNOLOGY, BENGALURU
KARNATAKA

Participated in the AICTE Recognized Faculty Development Programme

on

Internet of Things

Conducted by

Computer Science and Engineering Department

from

15/04/2020 to 19/04/2020 (One Week)

at

NITTTR, Chandigarh

Coordinator

Director

K.S.INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Cyber Security

AICTE Training And Learning (ATAL) Academy
Sponsored Five-days Online
Faculty Development Programme (FDP)
on
Cyber Security and Digital Forensics
(Advanced)

Convener :

Prof. R .Mariappan

Sponsored By

AICTE Training and Learning (ATAL)

Organized By

Department of Electronics & Communication Engineering
V.R. Siddhartha Engineering College (Autonomous)
Vijayawada, Andhra Pradesh-520 007
Website: www.vrsiddhartha.ac.in
Email: mariappan@vrsiddhartha.ac.in
Ph. +91 866 2582333

Venue: V.R. Siddhartha Engineering College **Date:** 23-05-2020 to 27-05-2020

Ms.Vijayalakshmi Mekali, Assistant Professor, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "**Cyber Security**" at V.R. Siddhartha Engineering College **from** 23-05-2020 to 27-05-2020.

About FDP

With increase in usage of the Internet, there has been an exponential increase in cyber-attacks. Cybercriminals use new and clever tricks to bypass security solutions. Cyber Security and Digital Forensics are integral part of the organization's security services. The aim of this FDP is to promote research in Cyber Security and Digital Forensics which includes topics like data collection tools, data scanning techniques for threat intelligence, data analytics, forensics tools for memory, mobile phones, network, Internet of things (IoT), social engineering, etc.

This online FDP is aimed to discuss the state-of-the-art research and development in Cyber Security Intelligence and Digital Forensics. The indicative pool of topics to be covered is as follows but is not limited to:

- Introduction to Cyber Threat Intelligence
- Cyber Threat Data Collection Techniques
- Information Security Risk Assessment and Management.
- Intrusion Analysis and Dissemination
- Penetration Testing
- Malware Analysis
- Memory, Network, Application, Hardware and Cloud Forensics Tools and Techniques
- Cyber Laws and Ethics
- Digital Forensics
- Adaptive Cyber Defence and Immunity.

Signature of Faculty

HOD

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

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

Principal

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

An Autonomous institute approved by NBA, AICTE, New Delhi
Affiliated to JNTUK, Kakinada

SUPRAJA

DEPARTMENT OF INFORMATION TECHNOLOGY

Certificate of Participation

This is to certify that

Dr./Mr./Mrs. VIJAYALAXMI MEKALI

of **KAMMAVARI SANGHAM INSTITUTE OF TECHNOLOGY, BANGALORE** has participated in the Five Day Faculty Development Programe (FDP) on "Cyber Security", Conducted by the Department of Information Technology, Velagapudi Ramakrishna Siddhartha Engineering College in association with Supraja Technologies & Computer Society of India Vijayawada Chapter, from 23-05-2020 to 27-05-2020.

Prof Rajesh Jampala	Mr Santosh Chaluvadi	Dr M Suneetha	Dr A V Ratna Prasad
Chairman of CSI (Computer Society of India) Vijayawada Chapter	CEO Supraja Technologies	Convenor & Head of the Department Information Technology VRSEC	Principal VRSEC

K.S.INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Trends in Data Science

Venue: Online **Date:** 13-07-2020 to 17-07-2020

Mr.Raghavendrachar, **Assistant Professor**, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on **"Trends in Data Science"** at **MSRIT from 13th to 17th July 2020**.

About FDP

Aims to equip with the skills, knowledge, and ethical framework necessary to navigate the evolving landscape of data-driven technologies and contribute meaningfully to society and industry.

The main objective of the workshop was to provide a forum for researchers, subject experts, and practitioners dealing with trending topics with hands-on sessions with resource persons from AWS, HPE, Microfocus Pvt. Ltd, C-DAC, Cognizant etc.

Signature of Faculty

HOD

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

Principal

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

RAMAIAH
Institute of Technology

M S Ramaiah Institute of Technology
(Autonomous Institute, Affiliated to VTU)
M.S.R. Nagar, Bangalore-560054

E-CERTIFICATE OF PARTICIPATION

This is to certify that Mr. RAGHAVENDRACHAR S of KSIT, Bengaluru has participated in Online Faculty Development Programme on **"Trends in Data Science"**, organized by the Department of Master of Computer Applications, Department of Computer Science and Engineering & Department of Information Science and Engineering from 13th July to 17th July 2020 under IQAC-MSRIT.

Dr. Yogish H K	Dr. Anita Kanavalli	Dr. Vijaya Kumar B P	Dr. N V R Naidu
Professor and Head	Professor and Head	Professor and Head	Principal, RIT
Department of MCA	Department of CSE	Department of ISE	

K.S.INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Outcome Based Education

JYOTHY INSTITUTE OF TECHNOLOGY

FDP on Outcome Based Education

On

13-01-2020 to 18-01-2020

Venue: Jyothy Institute of Technology **Date:** 13-01-2020 to 18-01-2020

Mr.Kushal Kumar B N, Assistant Professor, Department of CSE, KSIT, attended a Five Days Faculty Development Programme on "**Outcome Based Education"** at **Jyothy Institute of Technology from 13th to 18th January 2020**.

About FDP

Outcome-Based Education FDP aims to enhance the quality, relevance, and effectiveness of educational programs, ultimately improving student learning outcomes and preparing graduates for success in a rapidly changing world.

Outcome-Based Education (OBE) focuses on defining specific learning outcomes and designing educational programs to achieve those outcomes.

Define clear and measurable learning outcomes that specify what students should know, understand, and be able to do by the end of a course or program.

Signature of Faculty

HOD

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

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

Principal

JYOTHY INSTITUTE OF TECHNOLOGY

off Kanakapura Road, Thataguni, Bengaluru - 560082

CERTIFICATE

This is to certify that

Dr./Mr./Ms. Kushal Kumar B N has participated in VTU-TEQIP 1.3 sponsored five days national workshop on Outcome Based Education and NBA accreditation

From : 13.01.2020 to 18.01.2020

Coordinator

Principal

Scanned by CamScanner

K.S.INSTITUTE OF TECHNOLOGY

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

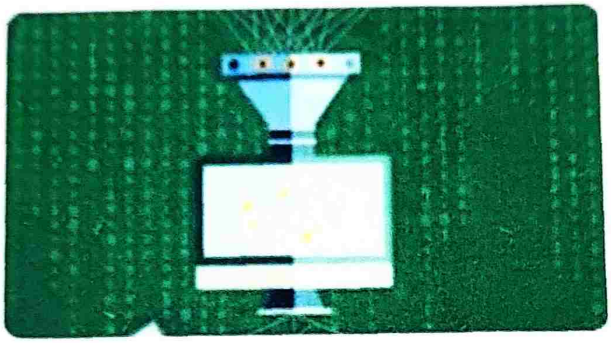
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Introduction to Machine Learning

Date: 25-07-2020



Duke University

Introduction to Machine Learning

Skills you'll gain: Artificial Neural Networks, Machine Learning, Natural Language Processing, Python Programming,...

Ms. Deepa S R , Assistant Professor , Department of CSE, KSIT, attended a Five Days Faculty Development Programme on **"Introduction to Machine Learning" by Courseera.**

About FDP

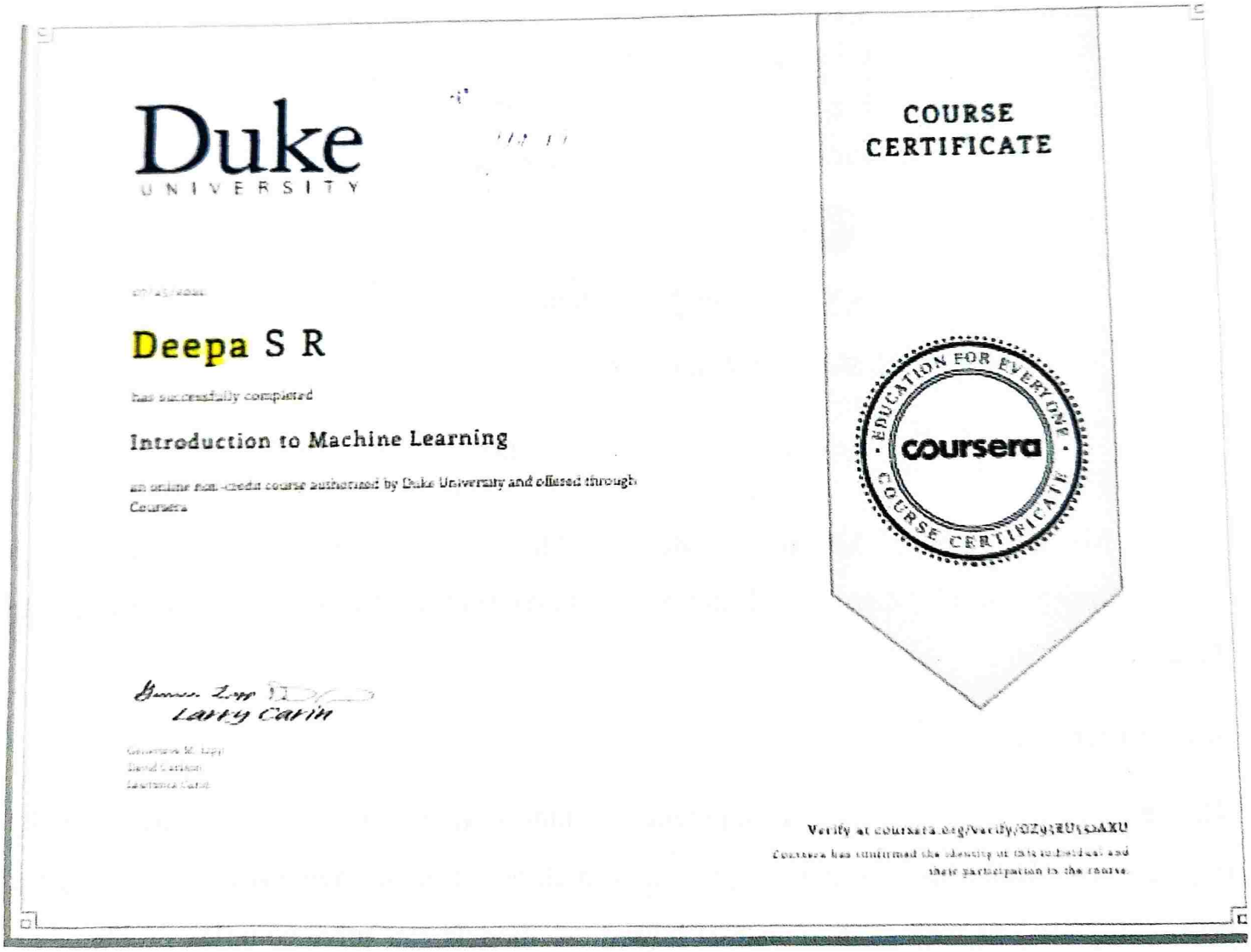
This course will provide you a foundational understanding of machine learning models (logistic regression, multilayer perceptrons, convolutional neural networks, natural language processing, etc.) as well as demonstrate how these models can solve complex problems in a variety of industries, from medical diagnostics to image recognition to text prediction. In addition, we have designed practice exercises that will give you hands-on experience implementing these data science models on data sets. These practice exercises will teach you

how to implement machine learning algorithms with PyTorch, open source libraries used by leading tech companies in the machine learning field (e.g., Google, NVIDIA, CocaCola, eBay, Snapchat, Uber and many more).

Signature of Faculty

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

Pricipal
CHIEF EXECUTIVE OFFICER
Member Secretary
Academic Advisory Board
K.S. Group of Institutions



Duke
UNIVERSITY

COURSE CERTIFICATE

Deepa S R

has successfully completed

Introduction to Machine Learning

an online non-credit course authorized by Duke University and offered through Coursera

Larry Carin

EDUCATION FOR EVERYONE · coursera · COURSE CERTIFICATE

Verify at coursera.org/verify/[illegible]

Coursera has confirmed the identity of this individual and their participation in the course.

K.S.INSTITUTE OF TECHNOLOGY

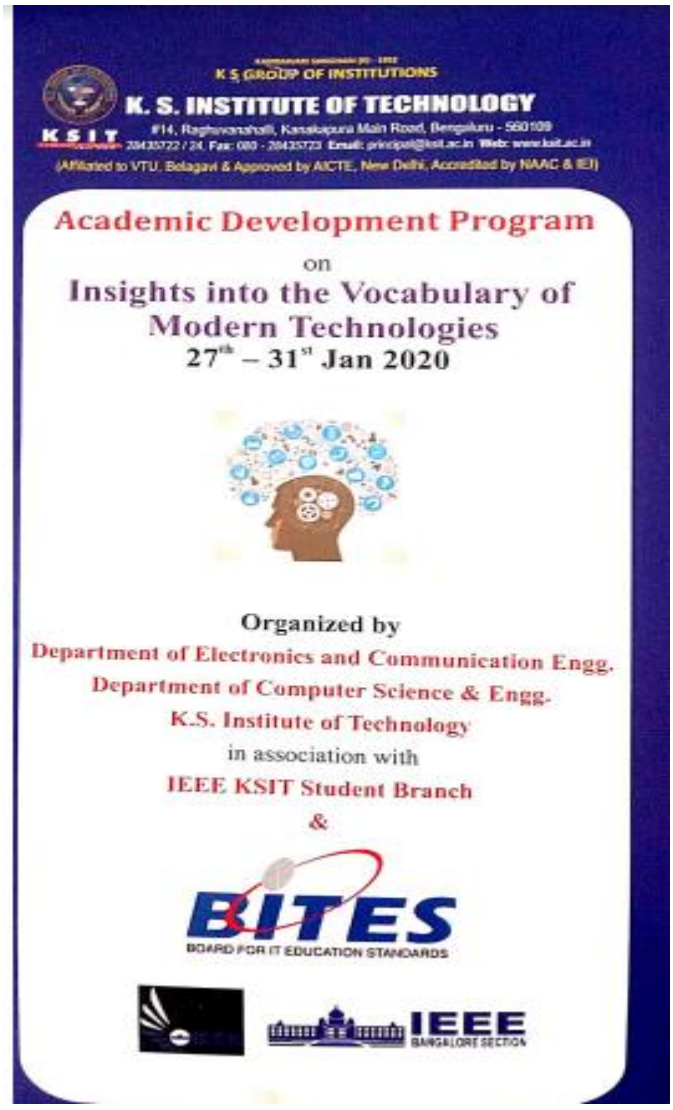
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

ON

Insights into the Vocabulary of Modern Technologies



Venue: K.S. Institute of Technology **Date: 27-01-2020 to 31-01-2020**

About FDP

The main objective is to improve digital literacy by training using various software applications, online learning management systems, and digital communication tools.

FDPs focus on integrating modern technologies into teaching methodologies to enhance the learning experience for students. This includes incorporating multimedia content, interactive simulations, virtual labs, and online collaboration tools into course curricula.

FDPs emphasize the adoption of blended learning approaches, which combine traditional face-to-face instruction with online learning activities. Faculty members are trained to design and deliver hybrid courses that leverage both physical classroom interactions and digital learning resources.

FDPs explore innovative pedagogical strategies that leverage technology to promote active learning, collaboration, critical thinking, and problem-solving skills among students.

Signature of Faculty

HOD

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

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

Principal

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. Dr. REKHA. B. VENKATAPUR

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

ECE Supporting Documents

Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY

KSIT

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. Dr. P N SUDHA

of KSIT Institution has participated in the Academic development progra

"Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communic

Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITE

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. CHRISTO JAIN S

of KSIT Institution has participated in the Academic development progra

"Insights into the Vocabulary of Modern Technologies" 27th - 31st Jan 2020 Organized by Department of Electronics and Communic

Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITE

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. Pooja S

of KSIT Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran	Dr.T.V.Govindaraju	Dr. K.N.B Murthy
CONVENERS	PRINCIPAL/DIRECTOR, KSIT	CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. DR. RAM. P. RUSTAGI

of K. S. I. T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. Joy

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N. Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

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

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SANJOY DAS

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. PRADEEP KUMAR. G. H

of K. S. I. T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. ROOPESH KUMAR. B.N

of K.S.I.T. Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. Joy Mr

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N.B Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. ADITYA PAI .H

of K. S. I. T. Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722/24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SWATHI . K

of K . S . I . T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. PRASHANTH . H . S

of K . S . I . T . Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. BEENA. K

of K.S.I.T. Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. MAMATHA .R.

of K.S.I.T. Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. J. M

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N.B Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SNEHA KARAMADI.

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. Joy Mr

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N.B Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. HARSHAVARDHAN. J. R

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SOUGANDHIKA NARAYAN

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. VISHALINI DIVAKAR

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. Joy Mr

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N. Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. JAYASUDHA . B . S . K

of K . S . I . T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SUNIL KUMAR. G.R

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SANGEETHA.V

of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. J. M

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N.B Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SHILPA. V

of K. S. I. T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. J. [illegible]
Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N.B Murthy
Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./~~Ms.~~ PRIYADARSHINI. J. PATIL of K.S.I.T Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. J. M

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N. Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel : +91-80-28435722 / 24 Fax : +91-80-28435723 Email : principal.ksit@gmail.com Website : www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. B.R. SANTHOSH KUMAR

of K.S.I.T. Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

P. Joy Mr

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

K.N. Murthy

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel: +91-80-29436722/24 Fax: +91-80-29436723 E-mail: principal.ksit@gmail.com Website: www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. DR. DAYANANDA R B

of KSIT Institution has participated in the Academic development program on "Insights into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Joy Prabhakaran
CONVENERS

Dr. L.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109
Tel: +91-80-28435722 / 24 Fax: +91-80-28435723 E-mail: principal.ksit@gmail.com Website: www.ksit.ac.in

Scanned with CamScanner

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. KRISHNA GUDI

of KSIT Institution has participated in the Academic development program on

"Insights into the Vocabulary of Modern Technologies" 27th - 31st Jan 2020 Organized by Department of Electronics and Communication

Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Rustagi/ Dr. P Jey Prabhakaran
CONVENERS

Dr.T.V.Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

Kammavari Sangham (R) - 1952
K.S.INSTITUTE OF TECHNOLOGY
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)
No. 14, Raghuvanahalli, Kanakapura Main Road, Bangaluru - 560109
Tel: +91-80-28435722/24 Fax: +91-80-28438723 Email: principal.ksit@gmail.com Website: www.ksit.ac.in

Certificate of Participation

BITES
BOARD FOR IT EDUCATION STANDARDS

IEEE
BANGALORE SECTION

This is to certify that Mr./Ms. SHYLAJA K R

of KSIT Institution has participated in the Academic development program on

"Insight into the Vocabulary of Modern Technologies" 27th – 31st Jan 2020 Organized by Department of Electronics and Communication

Department of Computer Science & Engineering K.S. Institute of Technology in association with IEEE KSIT Student Branch & BITES.

Dr. Ram P Hattagi/ Dr. P Jay Prabhakaran
CONVENERS

Dr. T.V. Govindaraju
PRINCIPAL/DIRECTOR, KSIT

Dr. K.N.B Murthy
CHAIRMAN, BITES

K. S. INSTITUTE OF TECHNOLOGY

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 21.1.2020

Report on OBE workshop

Attended six days national workshop on Outcome Based Education and NBA accreditation from 13.01.2020 to 18.01.2020. This workshop was organized by Jyothi Institute of Technology in collaboration with VTU.

The resource persons delivered necessary lectures covering the aspects of Outcome Based Education so that professors in engineering colleges can deliver the knowledge from OBE perspective.

Following were the outcomes of the workshop:

- Defining clear outcomes for each and every course of the curriculum.
- Defining mapping of the Course outcomes with program outcomes and program specific outcomes.
- Finding out the gaps in the syllabus of the course in addressing the program outcomes.
- Including Content beyond syllabus for course to bridge the gaps.
- Defining the process for course attainment and program attainment calculation.
- Setting the targets for PO's.
- Identifying which courses have not attained the target attainment values and actions to be taken to improve the same at course level.

Dr. B Sudarshan

Professor, ECE Department, KSIT, Bangalore

JYOTHY INSTITUTE OF TECHNOLOGY

off Kanakapura Road, Thataguni. Bengaluru - 560082

CERTIFICATE

This is to certify that

Dr./Mr./Ms. B Sudarshan has participated in VTU-TEQIP sponsored five days national workshop on Outcome Based Education and NBA accreditati

From : 13.01.2020 to 18.01.2020

Coordinator

Principal

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mr. Sampath Kumar

FDP Title: Applications of Optimization Techniques and Number Theory in Engineering science

Organized by: Department of ECE and EEE, Dayananda Sagar Academy of technology and Management

Duration: 16th Jan to 20th Jan 2020

About FDP:

FDP focusing on the applications of optimization techniques serve as invaluable platforms for educators to deepen their understanding and proficiency in this critical area of study. These programs are designed to equip faculty members with the knowledge, skills, and practical insights necessary to integrate optimization methodologies into various academic disciplines and professional domains. Through interactive workshops, seminars, and hands-on training sessions, participants gain a comprehensive understanding of optimization algorithms, modeling techniques, and software tools essential for tackling complex real-world problems effectively. Moreover, FDPs facilitate collaboration and knowledge sharing among educators, researchers, and industry practitioners, fostering interdisciplinary approaches to address contemporary challenges across sectors such as engineering, finance, healthcare, logistics, and beyond. By empowering faculty members to incorporate optimization techniques into their teaching, research, and consultancy activities, these programs not only enhance academic excellence but also contribute to the development of innovative solutions that drive positive societal impact.

Signature of Faculty

HOD ECE

RAMAIAH
Institute of Technology

Patrons

Dr. M. R. JAYARAM
Chairman
Gokula Education Foundation

Sri. M. R. SEETHARAM
Vice-Chairman
Gokula Education Foundation
Director – RIT

Sri. M. R. RAMAIAH
Secretary
Gokula Education Foundation
Director – RIT

Sri. B. S. RAMA PRASAD
Chief Executive
Gokula Education Foundation
(Engg.)

Sri. G RAMACHANDRA
Chief of Finance
Gokula Education Foundation
(Engg.)

Advisory Committee

Dr. N. V. R. NAIDU
Principal, RIT

Dr. C. G. PUTTAPPA
Vice Principal, RIT

Dr. ARCHNA
Registrar (Acad), RIT

Sri. SUMANTH S
Registrar (Admn), RIT

Dr. N. L. RAMESH
Professor and Head
Dept. of Mathematics, RIT

Dr. VIJAYA KUMAR
Assistant Professor

Certificate of Participation

This is to certify that

SAMPATH KUMAR S

of KSIT, BENGALURU

has participated in the

One Week Faculty Development Program

on

Applications of Optimization Techniques & Number Theory in Engineering Sciences

organized by

Department of Mathematics

Ramaiah Institute of Technology, Bangalore- 54

held during 16 -21 January 2020.

Dr. N. L. Ramesh
HoD, Mathematics

Dr. N. V. R. Naidu
Principal

Coordinators

Dr. SURESH BABU R
Assistant Professor

Dr. M. S. BASAVARAJ
Assistant Professor

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mr. Praveen A

FDP Title: Cyber Security

Organized by: Dayananda Sagar Academy of technology and Management

Duration: 2nd Dec to 06th Dec 2019

About FDP:

Faculty Development Program on cybersecurity is a vital initiative aimed at equipping educators with the knowledge and skills necessary to educate the next generation about the intricacies of cybersecurity. In an era where digital threats are increasingly sophisticated and pervasive, such programs play a pivotal role in empowering faculty members to impart relevant and up-to-date information to students. Through workshops, seminars, and hands-on training sessions, FDPs foster a deeper understanding of cybersecurity fundamentals, emerging trends, risk mitigation strategies, and best practices in teaching cybersecurity concepts effectively. By enhancing educators' proficiency in this field, FDPs contribute not only to the academic excellence of institutions but also to the broader goal of fostering a cyber-resilient society.

Signature of Faculty

HOD ECE

NPTI/HLTC/ATVR0108/2019/011

राष्ट्रीय विद्युत प्रशिक्षण प्रतिष्ठान

NATIONAL POWER TRAINING INSTITUTE

(Under Ministry of Power, Govt. of India)

सक्रिय लाईन प्रशिक्षण केन्द्र

HOT LINE TRAINING CENTRE

26th Km., Kanakapura Road, Bangalore - 560 116.

DSATM

प्रमाण - पत्र CERTIFICATE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

ATAL ACADEMY

This is to certify that Mr./Mrs./Miss/Dr. Praveen A., Asst. Professor of KSIT, Bangalore *had participated in* 5 Days Training Program on "Cyber Security" *conducted by this institute from* 02-12-2019 to 06-12-2019 *at* DSATM, Bangalore.

(Dr.K.S.S.RAVIKUMAR)
Program Director

NATIONAL POWER TRAINING INSTITUTE
HLTC
BANGALORE
560 082

Date: 06.12.2019

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mr. Saleem Tevaramani

FDP Title: Python for Data science

Organized by: Department of CSE, Raghu Engineering college

Duration: 01st Jun to 5th Jun 2020

About FDP:

Faculty Development Programs focused on Python for data science are instrumental in equipping educators with the necessary skills to teach and integrate this powerful programming language into academic curricula. Python's versatility and rich ecosystem of libraries make it a preferred choice for data analysis, machine learning, and artificial intelligence applications. These FDPs typically include hands-on workshops, lectures, and practical assignments tailored to help faculty members gain proficiency in Python programming, data manipulation, visualization, and machine learning techniques. By mastering Python for data science, educators can enhance their teaching methodologies, introduce students to modern data analysis tools, and facilitate experiential learning opportunities. Additionally, FDPs often encourage collaboration and knowledge exchange among participants, fostering a vibrant community of educators committed to advancing data science education. Ultimately, these programs play a vital role in preparing faculty members to meet the growing demand for data-driven skills in academia and industry, thus empowering the next generation of data scientists and analysts.

Signature of Faculty

HOD ECE

RAGHU ENGINEERING COLLEGE

(AUTONOMOUS)

Approved by AICTE, Affiliated to JNTU-Kakinada

Dakamarri (V), Bheemili (M), Visakhapatnam, Andhra Pradesh, India – 531162

Five-Day Online Faculty Development Program on

Python for Data Science

Organized by **Department of Computer Science & Engineering**

In association with **CSI Student Chapter**

Certificate of Participation

This is to certify that SALEEM S TEVARAMANI from KSIT has participated in Five-Day Online FDP on "*Python for Data Science*" Organized by *Department of CSE, Raghu Engineering College (A)*, Visakhapatnam, In association with CSI Student Chapter, from 1st June – 5th June 2020.

Convener	CSI SBC	HoD-CSE	RVP Region-V CSI	Principal
(Dr. G Jose Moses)	(Mrs. B Meena)	(Mr. S Srinadh Raju)	(Prof. M S Prasad Babu)	(Dr. R Kameswara Rao)

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mrs. Pragathi P

FDP Title: Recent IT Technologies, writing Papers and Funding Proposals

Organized by: Computer Science and Information Technology, RIT

Duration: 20th Jun to 24th Jun 2020

About FDP:

Faculty Development Programs (FDPs) centered on recent IT technologies and paper writing are pivotal in keeping educators abreast of the latest advancements in the ever-evolving field of information technology (IT) while honing their academic writing skills. These programs typically offer a multifaceted approach, incorporating seminars, workshops, and interactive sessions to delve into emerging IT trends such as cloud computing, Internet of Things (IoT), artificial intelligence (AI), blockchain, and cybersecurity, among others. Participants are guided through hands-on experiences, case studies, and discussions to deepen their understanding of these technologies and their applications across various industries. Moreover, FDPs place significant emphasis on enhancing participants' research and academic writing capabilities, providing guidance on crafting high-quality research papers, technical reports, and scholarly articles. Through workshops on literature review, research methodology, data analysis techniques, and effective communication, educators learn how to articulate their ideas coherently and contribute meaningfully to the academic discourse in their respective fields. Furthermore, FDPs often provide mentorship and peer feedback opportunities, enabling participants to refine their writing skills and prepare manuscripts for publication in reputable journals or conference proceedings. By combining insights into recent IT innovations with comprehensive training in paper writing, these FDPs empower educators to stay at the forefront of technology-driven advancements while effectively disseminating their research findings to the broader academic community. Such initiatives not only foster professional development but also catalyze knowledge creation and dissemination, ultimately benefiting both academia and industry.

Signature of Faculty

HOD ECE

Kasegaon Education Society's

RAJARAMBAPU INSTITUTE OF TECHNOLOGY, RAJARAMNAGAR

(An Autonomous Institute)

Department of Computer Science & Information Technology

CERTIFICATE OF COMPLETION

This is awarded to

Mrs. P Pragati

of

K S Institute of Technology

for successfully completed the one week online FDP on **"Recent IT Technologies, Writing Papers and Funding Proposals"**, organized by Dept. of Computer Science & Information Technology at RIT, under RIT-Center for Teaching and Learning in association with CSI and IEEE Bombay Section from 20 June to 24 June, 2020.

20-24 June, 2020

Prof. M. A. Patil	Dr. A. C. Adamuthe	Dr. S. K. Patil	Dr. Mrs. S. S. Kulkarni
Coordinator, Department of CS & IT	Head, Department of CS & IT	Dean, Academics RIT, Rajaramnagar	Director, RIT, Rajaramnagar

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mrs. Aruna Rao B P

FDP Title: Online Learning and assessment system

Organized by: Kalaburagi Local center

Duration: 18th Jun to 22nd Jun 2020

About FDP:

Online learning and assessment systems are crucial in equipping educators with the necessary tools and strategies to navigate the rapidly evolving landscape of digital education. These programs offer a comprehensive exploration of online learning platforms, instructional design principles, assessment methods, and best practices for delivering engaging and effective online courses. Participants learn how to leverage various technologies and tools to create interactive learning experiences, facilitate student engagement, and promote collaborative learning in virtual environments.

Furthermore, FDPs on online learning and assessment systems provide educators with insights into developing robust assessment strategies tailored to online settings. They cover topics such as designing authentic assessments, utilizing formative and summative assessment techniques, leveraging learning analytics, and ensuring academic integrity in online assessments. Through hands-on workshops, case studies, and discussions, participants gain practical experience in designing, implementing, and evaluating online assessments that align with learning objectives and promote student success. By engaging in FDPs on online learning and assessment systems, educators are better equipped to harness the potential of digital technologies to enhance teaching and learning outcomes in both traditional and online educational contexts. These programs empower faculty members to adapt to the demands of modern education, embrace innovative teaching methodologies, and foster student-centered learning experiences in the digital age.

Signature of Faculty

HOD ECE

Institution of Engineers (India)

Kalaburagi Local Centre, Kalaburagi

Certificate

This certificate is Presented to

Mr./Mrs **Aruna Rao B P**

Of

KSIT Bengaluru , Bengaluru

For successfully completing Online one week Faculty Development Program (FDP) on

Online Learning and Assessment System

Organized by IE(I) Kalaburagi Local Centre, Kalaburagi from 18.06.2020 to 22.06.2020

Er. B. S. More	Dr Prabhudev M S	Dr. Baburao Sherikar
Chairman	**Coordinator**	**Hon. Secretary.**
IEI,Local Centre, Kalaburagi	EC Member , IEI Local Centre, Kalaburagi	IEI, Local Centre, Kalaburagi

K S Institute of Technology Bangalore – 109
Department of Electronics and communication Engineering

KSIT

Report on Five Days FDP On
"Engineering Statistics and Linear Algebra"
Organized by BMSIT, Bangalore

Date: 31/12/2019 - 4/1/2020
Venue: BMSIT, Bangalore

Scope and Objectives:

- The main objective of the programme was to train the faculty members of VTU affiliated colleges for the course "Engineering Statistics and Linear Algebra" which is a core course in 4th semester of ECE and TE.

Topic coverage (Day and Schedule wise):

On 31/12/2019, Tuesday

Inauguration by Dr. A Srinivas Murthy and Dr. Narayana Iyer

Session I: Introduction to Probability by Dr. A Srinivas Murthy, Professor, UVCE, Bangalore

Session II: Introduction and basics of Linear Algebra by Dr. Narayana Iyer, Former Professor at IIT Kharagpur.

On 1/1/2020, Wednesday

Session I and II: Definition and calculation of Probability Density Function, Cumulative Density Function and Probability Mass Function of continuous and discrete random variables.

Session III and IV: Vector Spaces and interpretation of 2D and 3D vector spaces.

On 2/1/2020, Thursday

Session I and II: Properties of Random variables like mean, variance and standard deviation and its application on binomial, gaussian, poisson, exponential random variables.

Session III and IV: Principle of Orthogonality and how to determine basis functions.

On 3/1/2020, Friday

Session I and II: Problems on Conditional probabilities and introduction to multiple random variables followed by some numericals.

Session III and IV: Introduction to Eigen values and Eigen vectors and the procedure to determine the same.

On 4/1/2020, Saturday

Session I : Applications of Engineering Statistics and Linear Algebra in the field of Electronics and Communication by Dr. S Ravishankar, Professor, RVCE.

Valedictory

PO Mapping

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering Statistics and Linear Algebra	2	3	-	3	-	-	-	1	-	1	-	2

Enclosure: Attendance Certificate of Workshop

Report Submitted By:

Mrs. Bhargavi Ananth

HOD

9/01/2020

Certificate of Participation

This is to certify that Mrs. Bhargavi Ananth, Asst. Professor of KSIT, B'lore has participated in Five days National level Faculty Development Programme on **"Engineering Statistics and Linear Algebra"** organised by the Department of Electronics and Communication Engineering, BMS Institute of Technology and Management from 31st December 2019 to 4th January 2020.

Mr. Ravindra Asundi
Chief Coordinator

Dr. Ambika R
HOD

Dr. Mohan Babu G N
Principal

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Mrs. Veda B and Mrs. Mohanambika K M

FDP Title: 5G Communication networks and its Future

Organized by: Department of ECE and ETE, RIT

Duration: 06th Jan to 11th Jan 2020

About FDP:

This FDP program provides a comprehensive understanding of 5G networks, including their architecture, key technologies, deployment scenarios, and emerging applications. Participants in FDPs on 5G communication networks explore the fundamental principles underlying 5G technology, such as millimeter-wave communication, massive MIMO (Multiple Input Multiple Output), beamforming, network slicing, and software-defined networking (SDN). Through lectures, hands-on demonstrations, and case studies, educators gain insights into the technical intricacies of 5G networks and learn how to integrate these concepts into their teaching curriculum effectively

By engaging in FDPs on 5G communication networks and their future, educators enhance their expertise in this cutting-edge technology domain and equip themselves with the knowledge and resources to deliver high-quality instruction, mentor students, and conduct research in wireless communication. These programs play a crucial role in fostering a skilled workforce capable of harnessing the full potential of 5G technology and driving advancements in communication networks for years to come.

Signature of Faculty

HOD ECE

RAMAIAH
Institute of Technology

IEEE BANGALORE

This is to certify that Mr / Ms / Mrs VEDA B of

KSIT

has attended One Week Workshop on

"5G Communication Networks and its Future Perspective"

held at Ramaiah Institute of Technology, Bengaluru

from 06th to 11th January, 2020

Organized by

Department of Electronics & Communication Engineering

Department of Electronics & Telecommunication Engineering

Ramaiah Institute of Technology

IEEE ComSoc IEEE Communications Society

IEEE

IEEE Signal Processing Society

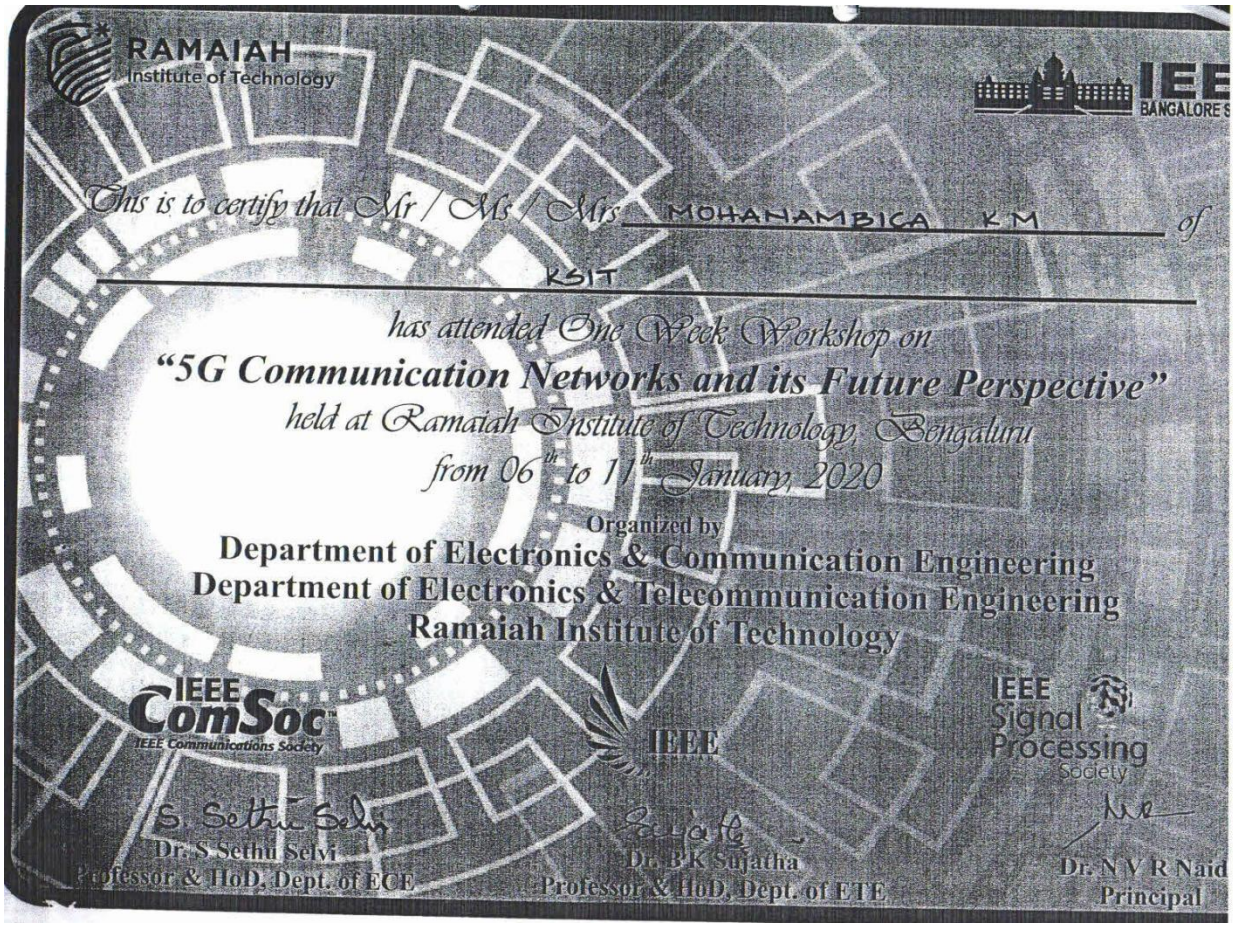
S. Sethu Selvi

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

Sujatha

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

Dr. N V R Naid
Principal


RAMAIAH
Institute of Technology
IEE
BANGALORE S
This is to certify that Mr / Ms / Mrs MOHANAMBICA K M of
KSIT
has attended One Week Workshop on
"5G Communication Networks and its Future Perspective"
held at Ramaiah Institute of Technology, Bengaluru
from 06th to 11th January, 2020
Organized by
Department of Electronics & Communication Engineering
Department of Electronics & Telecommunication Engineering
Ramaiah Institute of Technology
IEEE ComSoc
IEEE Communications Society
IEEE
IEEE Signal Processing Society
Dr. S Sethu Selvi
Professor & HoD, Dept. of ECE
Dr. BK Sujatha
Professor & HoD, Dept. of ETE
Dr. N V R Naid
Principal

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Name: Dr. Surekha B

FDP Title: Recent IT Technologies writing papers and Funding

Organized by: Computer Science and Information Technology, RIT

Duration: 20th June to 24th June 2019

About FDP:

Faculty Development Program focused on recent IT technologies, writing papers, and securing funding are integral for educators aiming to navigate the dynamic landscape of information technology (IT) research, publication, and grant acquisition. These programs offer a multifaceted approach, combining insights into cutting-edge IT innovations with comprehensive training in academic writing and grant proposal development. Participants in FDPs on recent IT technologies explore emerging trends such as artificial intelligence (AI), machine learning, blockchain, cloud computing, cybersecurity, and Internet of Things (IoT). Through seminars, workshops, and hands-on sessions, educators gain a deep understanding of these technologies, their applications across various sectors, and the research challenges and opportunities they present.

In parallel, FDPs provide guidance on academic writing, helping educators refine their skills in crafting research papers, technical reports, and scholarly articles. Topics covered may include literature review techniques, research methodology, data analysis, writing style, and effective communication of research findings. Participants receive feedback and support to enhance the quality and impact of their scholarly publications.

Signature of Faculty

HOD ECE

Kasegaon Education Society's

RAJARAMBAPU INSTITUTE OF TECHNOLOGY, RAJARAMNAGAR

(An Autonomous Institute)

Department of Computer Science & Information Technology

IEEE BOMBAY SECTION

COMPUTER SOCIETY OF INDIA ESTD. 1965

CERTIFICATE OF COMPLETION

This is awarded to

Dr. Dr Surekha Borra

of

K. S.INSTITUTE OF TECHNOLOGY

for successfully completed the one week online FDP on **"Recent IT Technologies, Writing Papers and Funding Proposals"**, organized by Dept. of Computer Science & Information Technology at RIT, under RIT-Center for Teaching and Learning in association with CSI and IEEE Bombay Section from 20 June to 24 June, 2020.

20-24 June, 2020

Prof. M. A. Patil	**Dr. A. C. Adamuthe**	**Dr. S. K. Patil**	**Dr. Mrs. S. S. Kulkarni**
Coordinator,	Head,	Dean, Academics	Director,
Department of CS & IT	Department of CS & IT	RIT, Rajaramnagar	RIT, Rajaramnagar

CEID:RIT/CSIT/105

www.ritindia.edu

K S Institute of Technology, Bengaluru– 109

Department of Telecommunication Engineering

Report on FDP "State of the art RF and Wireless Communication Design"

Dates of FDP: 29/07/2019 to 02/08/2019

Venue: BMSCE, Bengaluru

Organized by: Department of Electronics and Communication, BMSCE, Bengaluru in Association FET,M.J.P Rohilkhand University.

Day-1:

Speaker-1: Dr. Navin Kumar, Chair, IEEE ComSoc Bengaluru Chapter& Associate Professor, Dept of ECE, Amirta School of Engineering, Bengaluru

Guest Arrived at10.00 am,delivered a talk on Evolution of Wireless Communication: Opportunities and challenges towards 5G and Beyond.

Speaker-2: Mr. Narayan Prasad,Technology Consultant.

The session started at 11.30 am. The talk was on "Automotive Radar: Technology and applications"

Speaker-3:Dr.Chandrika Sudheendra, Group director, Aeronautical Development Establishment (ADE),DRDO, Bengaluru.

The session started at 2 pm after lunch break. Detailed talk was delivered on the aeronautical development in DRDO.

Day-2:

Speaker-1: Dr. K R Sudheendra, Associate Professor, Dept of ECE,BMSCE

The session started at 9.30 am.The talk was on RF planning and optimization. Antenna design was explained in detail.

Speaker-2: Mr. Diptiman Biswas, Scientist F (FTTT division) ADE, DRDO, Bengaluru

The session started at 11.30am after a tea break. The explanation of Advanced RF & wireless systems for unmanned aerial vehicles was done.

Speaker-3: Dr. Sambasiva Rao, Director, Center for Research in Space science and technology, PES University

The session started at 2.15 pm after lunch. The talk was on RF/Microwave wireless technology in Satellite communication.

Day-3:

Speaker-1: Dr. Ratna G N, Principal Research Scientist, Dept of Electrical Engineering,IIsc.

The talk started at 9.30 am by Professor on Cognitive Adaptive Array Processing.

Session 2 &3 were on Technilab instruments

Day-4: Hands on session on ADS (ADVANCED DESIGN SYSTEM).

Day-5: Hands on session on HFSS(HIGH FREQUENCY STRUCTURAL SIMULATOR).

Report Submitted By

Mrs. Devika B

14/8/19

Staff Signature with date

14/8/19

HOD

19.8.19

Principal

TEQIP-3
Technical Education Quality Improvement Programme

BMS COLLEGE OF ENGINEERING, BENGALURU-19

(Autonomous Institution under VTU, Accredited by NBA & NAAC with A++ Grade)

TEQIP-III Sponsored One Week Faculty Development Program

on

"State of the Art in RF and Wireless Communication Design"

29th July to 2nd August 2019

CERTIFICATE

This is to certify that Mr./Ms./Dr. DEVIKA. B. *has Participated and successfully completed TEQIP-III Sponsored One Week Faculty Development Program on "State of the Art in RF and Wireless Communication Design" organized by the Department of Electronics & Communication Engineering, B.M.S.College of Engineering, Bengaluru in Association with M.J.P. Rohilkhand University, Bareilly, U.P.*

Dr. Arathi R Shankar
Head, Dept. of ECE
B. M. S. College of Engineering

Dr. B.V. Ravishankar
Principal
B. M. S. College of Engineering

K S Institute of Technology, Bengaluru – 109

Department of Telecommunication Engineering

Report on Ten Days Workshop Titled "Research Methodology"

Dates of Conference: 26/07/2019 to 04/08/2019

Venue: Seminar Hall, VTU HRDC, Muddenahalli, Chickballapur

Organized by: Visvesvaraya Technological University, VTU-HRDC, CPGS, Muddenahalli, Chickballapur.

Scope and Objectives:

To Pursue Quality Research in PhD Programme with Human Values.

Day-1:

Inauguration started at 10.15AM. Dr. Chikkanna, PG Co-ordinator welcomed the esteemed guests on to the Stage. Dr. B G Satyaprasad and Dr. K V Prakash were the chief guests for the inaugural function. Function started with invocation song.

Speaker-1: Dr. B.G. Satyaprasad, Professor and Director, G T Institute of Management Studies, Bengaluru-560072

Speaker started with necessity of research in current days. He informed that in almost all areas like agriculture, industries, academics, service sectors and regulatory bodies to control economy we need research. Research is walk of life. He also informed that, 30% of the national income will be allocated to research in US and UK. He informed the necessity of quality research. He informed the necessities to complete PhD process such as mental strength, physical strength and financial motivation. He informed us to have a dream and chase that dream every day. Dream should be supported by Hardwork. He informed us to do SWOT analysis of ourselves and identify the strengths of each participants. He also informed us to admire already existing technologies.

He suggested to improve the strengths by continuously doing hard work. He asked us to dedicate some time for research every day. Formulation of research title is most difficult in PhD process. He also asked us to go through all the recent 2 years papers, research project reports from M.Tech, M.Phil, B.E and National/International Journals on our topic. He informed about research design. It is a plan/blueprint through which we move till end of our research. He informed us about how to write an effective report. He informed the flow of chapter names and its description. They are: introduction, problem statement, scope of study, operational definition of concept, literature survey, objective, reference period, sample technique adopted, sources of data, tools required, analysis and interpretation, limitations, conclusions, future scope and bibliography.

Speaker-2: Dr. K V Prakash, Principal, Govt. Engineering College, Haveri

Speaker talked about basic concepts of research and human values. He motivated us to pursue research by passion. According to him, the qualities of researcher are passion, positive energy, performance, perseverance, original thinking and self confidence. In his talk, he informed about how passion builds your career towards success. He spoke about how to control a mind to do qualitative research. Success occurs twice in life. Once in your mind and once in reality. He suggested us to have faith in our work. Do not give up, the beginning is always hardest. Do not create barriers in your mind. If we control our mind, anything is possible. Have goals in life. He informed about sustained sincerity and faith in life.

Day-2: Dr. S N Sridhara, Professor and Director, Amity University, Hariyana

Speaker illustrated about problem identification and formulation. He spoke about scope of research and few definitions pertaining to research. Research is systematic investigation into and study of materials and sources in order to establish facts and reach to new conclusions. Research may lead to design/method or product. He also spoke about research outcomes, money management, necessity of patents and identifying quality journals.

Speaker spoke about research design as it's a framework to methodically define the research questions and seek answers. He spoke about facilities required to do research. He mentioned about sources of data, sample designs in research, major steps in research. He spoke about research design methods and literature review. He mentioned about primary and secondary sources where we get information.

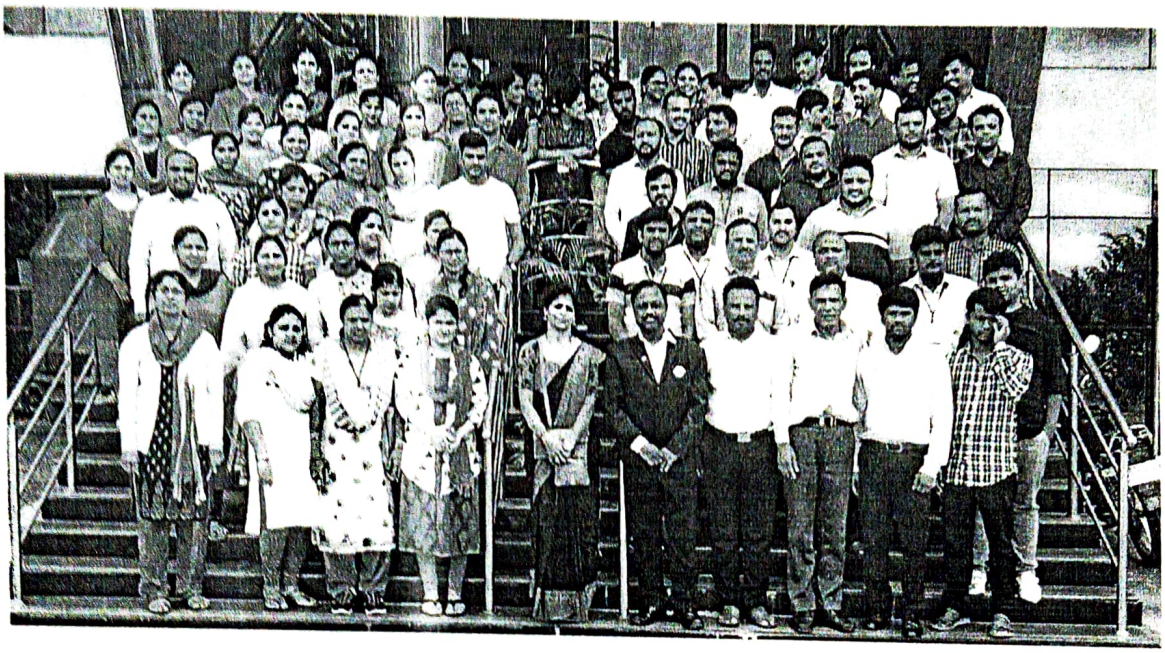


Fig-1: Photograph of Research scholars with Speaker Dr. S N Sridhara

He spoke about importance of paper publication in good journals with high impact factors. He suggested us to refer peer review papers, text books, research reviews, scholared articles, news papers for contents. He told many suggestions regarding, how to carry review of literature and how to cite it in reference. He also spoke about few reference techniques.

He suggested to be focused and have monthly targets. He also suggested to spare atleast 1 hour or 2 hours time for our project. He also suggested to avoid poor literature review technique of annotations. He also spoke about how to summarize the results and write it in discussions chapter. He mentioned various software's which help in doing bibliography.

Day-3: Dr. Lancy D'Souza, Professor and Head, Department of Psychology, Mysore University

Speaker spoke about Data Analysis and Interpretation. He also mentioned about hypothesis formulation and testing. He mentioned about importance of statistics. Four important processes in statistics are collection of data, compilation, analysis and interpretation. He mentioned about nominal and ordinal measurement in his speech. He informed about interval and ratio scale as advanced level measurement. He also mentioned about normality check importance and Shapiro wilk test. He mentioned about the difference between parametric and non parametric measurement. He also told the importance of creative system link research. He mentioned about what is hypothesis and its types.

He explained about null, alternative and directional hypothesis. Null hypothesis does not have difference and relationship. He mentioned about two group difference comparison as paired sample and t test. He taught Anova (Analysis of Variance) and Ancova (Analysis of Co-variance).

He mentioned about various types of anova. Univariate and multivariate anova are the different types of anova. Repeated measure anova was the additional thing in anova. Several independent and dependent variable has to be used in all the types of anova and it should be applied for only parametric raw data. He also mentioned about post hoc test, duncuns multiple hop test, schaffe HSD, Tukeys method and bonferroni method. He also mentioned about parametric relationship methods as correlation and regression.

He mentioned about non parametric methods of measurement. He mentioned about single and multiple regression. He illustrated type-1 and type-2 errors in measurement. He suggested to use SPSS tools for verifying parametric and non parametric difference methods. He taught about various significance levels and its interpretation to the given problem statements.

Day-4: Dr. K R Jayakumar, Professor and Head, Department of Science and Humanities, KSIT, Bengaluru

Speaker informed about sampling design, statistical methods and Latex. He also mentioned about evaluation procedure of research methodology. He taught the significance of mean, median, mode, standard deviation and covariance in statistics with an example each in cricket. He mentioned about what is sampling and why we need sampling. He mentioned the different types of sampling techniques and its uses in statistics.

He mentioned about non probability and probability samples in statistical methods. He taught random sampling, systematic and clustered sampling techniques in statistical methods.

He talked about Chi-Square Distribution which talks about the significance of calculated and tabulated value in statistical methods. He solved 2 problems which can be asked in research methodology course work. He gave a brief insight in syllabus of research methodology course work by VTU.

He mentioned about degrees of freedom and goodness fit in statistical methods. He suggested to use Latex for thesis writing and technical paper publication. He taught basics of latex commands. He mentioned about various journals in which latex is a must.

Day-5:

Speaker: Dr. Mahesh, Professor and Head, Department of MBA, Bangalore Institute of Technology, Bengaluru

Speaker informed about importance of Hypothesis and its usage. He suggested few softwares like SPSS (Statistical Package of Social Sciences) and Jamovi powered by R. He clearly mentioned about many hypothesis types and its practical implementation. He spoke about different types of data samples such as parametric and non parametric raw data or information. He spoke about null

hypothesis as if there is no evidence to reject the hypothesis then it is called null hypothesis. He informed about alternative hypothesis and its formula to compute the significance levels.

He took three problems and discussed about null and alternative hypothesis. He suggested few important topics such as anova, ancova. Regression and correlation coefficient. In null hypothesis, there is no statistically significant differences with references to corresponding perceptions will have impact on consumer buying behavior. In alternative hypothesis, there is statistically significant differences with references to corresponding perceptions will have impact on consumer buying behavior. He mentioned the importance of P value and alpha. He suggested a software called "Raosoft" for calculation of sample size.

Day-6:

Speaker: Dr. Binoy Mathew, Associate Professor & Director, Centralized Placement Cell, Visvesvaraya Technological University, Belagavi

Speaker informed about literature review and writing bibliography. He started with defining what is success as far as researcher is concerned. We have to redefine success everytime. He mentioned about shiv khera book of how to win. He showed one motivational video. He mentioned about the differences between Scope, boundaries of study and limitation of research. He told importance of having Mendeley tool for bibliography.

He mentioned the differences between bibliography and references. He showed APA and IEEE format of bibliography. He told about life time assets of research. He told about importance of base paper. He mentioned the importance of selecting good journals, papers, books and online materials for research. Importance of literature review is we can clearly understand what has been done and what can be done in future. Identifying research gap can be biggest concern in finding a research problem. A complete research statement is half solved. He mentioned about chapter wise references.

Day-7:

Speaker-1: Dr. Nagesha N, Professor, Department of Industrial and Production Engineering, UBDT engineering college, Davanagere

Speaker mentioned about "A review on research process and Data Analysis". He clearly mentioned about what is research and what is not research. He told that research should be well planned and managed. We should possess great concentration and commitment towards our work. What has to be done for every 6 months, should be defined initially itself. He mentioned the differences between basic and applied research.

He told the importance of variables and its different types. He talked about importance of dependent and independent variables. Literature review pattern should be according to IEEE or APA format. He told the importance of sampling and explained about different types in sampling. He mentioned about univariate, Bi-variate and multi-variate data analysis and importance in any kind of research paper. He mentioned about measurement of dispersion range, quartile deviation, median, mode, covariance, standard deviation and P-value.

He mentioned about the importance of regression analysis in any kinds of research paper or thesis. He talked about stochastic and non-stochastic analysis in statistical methods. He mentioned the relevance of interpretation or comparison of our results with the existed paper results. He mentioned about how to find out regression co-efficient. He mentioned about adjusted R-square value and residuals. He talked about importance of normal probability plot in any kind of research.

Session-2: Mr. Shivaram, Senior Technical Manager, CSIR-NAL, Bengaluru

Speaker told about tools which will help researcher in his literature survey and thesis writing. He mentioned about different stages of research and tools which helps in retrieving better contents from websites. He mentioned about different searching techniques and quoted with examples. He also talked about Different document types in scholarly information. He mentioned the importance of various

bibliographical databases. He talked about aggregators and different kinds of publications.

He also talked about open access journals and Scopus indexed journals. He explained about how to decrease plagiarism in our research thesis report. He talked about social networking cites which will help in our research. He told about patents and importance of copy right form when we publish our articles in journals. He mentioned about different online tools used for bibliography writing in our research thesis report.

Day-8:

Speaker-1: Dr. Sreenivasa, Associate Professor, Department of Mechanical Engineering, UBDT Engineering College, Davanagere

Speaker told about "Research Skills" which is required for any researcher. He informed about various questions usually people asks interms of pursuing research. He told history of research in all over the world. He mentioned research importance in recent days. He mentioned how to start research initially. He mentioned about sources of research problems. He also discussed about benefits of both smart work and hard work. He discussed about types of research technical papers.

He mentioned about various national and international journals in which researcher is going to publish their work. He discussed about impact factor and referencing techniques. He discussed about how to understand various journal papers. He mentioned about reference management software. He mentioned about plagiarism and its importance in current years.

Speaker-2: Dr. Nataraj K R, Professor, Department of ECE, SJB Institute of Technology, Bengaluru

Speaker told about "How to write a technical paper". He mentioned about mistakes which can be done by recent researchers while publishing their work. He

mentioned about review process in many journals. He mentioned about importance of literature survey in our research work. He discussed about thesis compilation in university. He mentioned about managing our working hours inspite of busy schedule.

He also spoke about managing time and publishing effective papers in various national and international journals. He mentioned about importance international conferences in publishing our research work. He told about exam process and thesis submission process in Visvesvaraya technological university. He told us refer as many papers as possible and study atleast two papers every day. He spoke about various aspects in selecting Doctoral committee and Examination Review Committee. He mentioned about size of abstract and its importance in thesis as well as in technical paper. He mentioned about open source journals and how to access those journals by sitting in front of computer. He concluded by informing Funding opportunities in India.

Day-9:

Speaker: Dr. T Ramakrishna, Professor, National Law School of India, Nagarbhavi, Bengaluru

Speaker informed about "Intellectual Property Rights and its overview". He mentioned the importance of patents and copyrights in recent day research. He discussed about patent search website prior art search. He told about trademarks, copyright protection rules, industrial designs, design act of 2000, traditional knowledge, trade secrets, geographical indicators, patents, layout designs for integrated chips in semiconductor history and plant varieties.

He defined patents as exclusive rights given to inventor for limited period, when clear disclosure of his/her invention. He discussed about necessity factors for patents. Process and products can be patented. Discovery of new metal/ principles can not be patented. Newtons laws can not be patented. According to Section 3D of patent act surgical method will not be patented.

Day-10:

Speaker: Dr. M K Purushotham, Professor and Head, Department of Commerce and Management Studies, Vivekananda College and Research Center, Bengaluru

Speaker informed about "General overview of Academia and Research". He talked about importance of research. He told many suggestions regarding, how to carry review of literature and how to cite it in reference. He also spoke about few reference techniques. He told about life time assets of research. He told about importance of base paper. He mentioned the importance of selecting good journals, papers, books and online materials for research.

He also talked about open access journals and Scopus indexed journals. He explained about how to decrease plagiarism in our research thesis report. He talked about social networking cites which will help in our research. He told about patents and importance of copy right form when we publish our articles in journals. He mentioned about different online tools used for bibliography writing in our research thesis report. In his talk, he informed about how passion builds your career towards success. He spoke about how to control a mind to do qualitative research.

Report Submitted By

DILEEP J
Asst. Prof., Dept. of TCE

4/8/19
Staff Signature with date

5/8/19.
HOD

5.8.19
Principal

ONE WEEK WORKSHOP

On

RESEARCH METHODOLOGY

(A Workshop on Research Methodology for Research Scholars of VTU Affiliated/Autonomous/Constituent Institutions)

REGISTRATION FORM

Name: DILEEP. J

Qualification: M.Tech

Department: TCE, KSIT

Organization: K.S. INSTITUTE OF TECHNOLOGY

No. of years of Teaching Experience: 4

Address for Correspondence:

#183, 6TH CROSS, 1ST MAIN, NAIDU LAYOUT, BSK III STAGE, NEAR ABBAIAH NAIDU STUDIO, BENGALURU - 560061

Mobile: 8867781213

Email: dileepj@ksit.edu.in / dileep1721991@gmail.com

Amount: Rs 6000/- Online Payment Receipt No: DUB6651728

Date: 16/7/19

Accommodation Required(√): Yes ✓ No

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop of VTU HRDC and shall attend all the sessions compulsorily.

Date: 16/7/19

16/7/19

Signature of the Applicant

16/7/19

Recommended and Forwarded

16.7.19

Signature of the Head of the Institution

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

VTU / MH / RM6 / JULY - AUGUST - 2019 /.....49.....

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

VTU HUMAN RESOURCE DEVELOPMENT CENTRE (VTU-HRDC)

VTU Centre for Post Graduate Studies, Bangalore Region
Muddenahalli, Chikkaballapur (Dist) - 562101

Ten Days Workshop
On
" RESEARCH METHODOLOGY "
26th July - 4th August 2019

Certificate

This to certify that Mr/Ms.....Dileep J.....of.....KSIT, Bengaluru.....has participated and Successfully completed ***Ten Days Workshop On*** **"Research Methodology"** ***from 26th July - 4th August 2019*** *Organized by VTU Human Resource Development Centre (VTU-HRDC), Centre for PG Studies, Muddenahalli, Chickaballapur (Dist).*

Prof. N. Chikkanna
Convener, Research Methodology Workshop
Co-ordinator, VTU CPGS, Muddenahalli

Prof. A. S. Deshpande
Registrar
VTU, Belagavi