

STAFF SELF APPRAISAL REPORT

2021-2022

KSIT

Field	Data	SCORE
Name	Dr.Balaji.B	---
Present Address, Mob.No., e-mail id.	#37, 10 th A cross, 4 th main road, Srinivasa Nagar, BSK 3 rd stage, Bangalore- 85 Mob : 9845496309 hod.mech@kssem.edu.in	
Age and Date of Birth	46years, 03/06/1976	
Qualification	M.Tech, Ph.D	
Designation and Department	Prof & HOD, Mechanical Engineering	
Teaching Experience (After PG)	16years	
Other Experience(If any)	04 years teaching after B.E & 3 years Industry	
List of Subjects Taught till date (use separate sheet if necessary)	Annexure - 1	--
Number of FDPs attended since joining service (Attach Separate List)	Annexure - 2	
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Design of Machine Elements -I, 5 th sem, 76% 2. Elements of Mechanical Engineering -1 st sem, 90% Results are awaiting 3. Design of Machine Elements -II - 80% 4. Project Phase-II - 100%	34.6/40 16.6/40 Results awaiting
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1.Design & Development of fixed wing multirotor UAV for quick medical response 2.Design & Fabrication of multi nut remover	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	NA	/10

Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	100%	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	99.4%	4.97/5
Details of students mentored during current assessment year. (Furnish details)	05	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	Internal DCS at KSSEM	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	Not attended during this assessment year because of HOD responsibilities.	/10
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	10/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1.Design & performance Evaluation of 3- Blade propeller for Multi- Rotor UAV 2.Variation of tensile , hardness, impact & natural frequency in jute/E-glass epoxy composite for varying fiber loading & addition of shear thickening fluid	10/10 7/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1.National Conference on Recent Innovations in Engineering 2. Attended SAE India Redline racing Mega E-ATV championship	10/10
Financial Assistance received during current year for attending such events.	Nil	--
Registered as Research Guide (Reasons for not registering)	No Registered last year but rejected, this time again applied	-
Research Scholars registered with details	No	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Nil	/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	---- Workshop on Supply Chain Management , Speakers Dr. Milind (Pooa college of Engg)	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	----	/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	---- I used NPTEL, COURSERA material to teach DME Subject	5/5 2/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	---	/5

Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs.7000/- from KSCST Rs. 5000/- from VTU	5/5
Consultancy Revenue Generated	----	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) Head 2) Disciplinary 3) Anti- Ragging 4) Project coordinator 5) Anti- Sexual Harassment	10/10 6/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	1. ISTE (Certificate attached) 2. IEI (Certificate attached)	5/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOD]	Disciplinary & Stage committee in charge during AAROHANA 2022 cultural event	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Visited Agartala for campaigning our group of institutions, Taken in charge in posting Hoardings at outstations, Counselling the students during admissions, etc.	10/10 139.57/190
TOTAL		111.57/190

Date: 15/7/22

Comments from the HOD:

$140 - 10 = 130 + 15$
 $135 - 14 = 126 + 15$
 $\frac{145}{180}$ = $\frac{141}{180}$

Comments of the Principal after the discussion:

Signature of faculty

[Handwritten Signature]

Signature of the HOD

[Handwritten Signature]

Signature of the Principal

[Handwritten Signature]

Annexure - 1

List of Subjects Taught:

SL NO	SUBJECTS TAUGHT	SEMESTER
1	Elements of Mechanical Engineering	I/II
2	Elements of Civil Engineering & Engineering Mechanics	I/II
3	Mechanics of Materials	III
4	Computer Aided Machine Drawing	IV
5	Kinematics of Machines	IV
6	Design of Machine Elements - 1	V
7	Design of Machine Elements - 2	VI
8	Computer Integrated Manufacturing	VI
9	Theory of Elasticity	VI
10	Theory of Plasticity	VII
11	Computer Aided Modeling & Analysis	VII
12	Experimental Stress Analysis	VII/VIII



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
 # 15, Mallasandra, off. Kanakapura Road, Bengaluru 560109

KSSEM

Certificate of Appreciation

This is to certify that
Dr. Balaji.B

of K.S.School of Engineering and Management

has attended a 5 day online Faculty Development Programme on "Advances and Research in Mechanical Engineering", organised by Department of Mechanical Engineering, KSSEM from 20/07/2020 to 24/07/2020.

[Signature]

Chief Coordinator
 Dr. Jyothi .PIN

[Signature]

Head of the Department
 Dr. Balaji.B

[Signature]

Principal
 Dr. K. Rama Narasimha

Kannavari Sangham (R) - 1952



K. S. INSTITUTE OF TECHNOLOGY

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

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

Tel : 080-28435722/24 Fax : 080 - 2835723 Email : principal.ksit@gmail.com Web : www.ksit.edu.in



Certificate of Participation

This is to certify that

Mr./Ms./Dr./Prof. _____

Dr. Balaji. B

of

K. S. School of Engineering _____ has attended One Week online Faculty Development
and Management programme on "Recent Advances & Trends in Mechanical Engineering & Material Science",
Organized by Department of Mechanical Engineering, KSIT from 27/07/2020 to 31/07/2020.

Dr. GIRISH. T.R.
Assoc. Prof, ME

Prof. UMASHANKAR. M
HOD, ME

Dr. K. V. A. Balaji
Principal / CEO



Rajya Vokkaligara Sangha ®

Bangalore Institute of Technology

(Affiliated to VTU Belagavi, Approved by AICTE)

K.R. Road, V.V. Pura, Bengaluru -560.004



BITNIE/AFTMME 2020/214

Certificate of Participation

This is to Certify that *Dr. Balaji B, ASSEM, Bengaluru*

has participated in the Five Day Faculty Development Programme on "Advancements and Futuristic Trends in Materials and Mechanical Engineering" (AFTMME-2020), organised by Industry-Institute Interaction Cell, Department of Mechanical Engineering,

Bangalore Institute of Technology, during 27th - 31st July, 2020.

Address

Manjunath M.C.

T.V. Sreerama Reddy

Aswath M.U.

Dr. Chandrashekar A.
Convener

Dr. Manjunath M.C.
Convener

Dr. T.V. Sreerama Reddy
Prof. & Head

Dr. Aswath M.U.
Principal, BIT



KSIT

Dr. B. Balaji, B.Tech, M.Tech, Ph.D.,
Professor, KSSEM, Mysore

Dr. Girish T.R.,
Workshop Coordinator

Dating



Certificate of Participation

KV1BCK-CE000042

This is to certify that **Dr. BALAJI. B** of **KSSEM** has Participated In 2 days Workshop on "Importance of Hypermesh in Analysis" organized by Department of Mechanical Engineering, KSIT from 25/6/2020 to 26/6/2020

Dr. Girish T R
Workshop Coordinator

Prof. Umashankar M
HOD, ME

Dr. T V Govindaraju
Principal, KSIT



KSSSEM

Bridg
NG
Acad

Certificate of Participation

This is to certify that Dr/Mr Dr. Balaji B working as Prof. and Head
in the Department of Mechanical Engineering at K.S. School of Engineering and
Management has attended a webinar on "Overview of Aerospace Technical Publication", on
10-06-2020 conducted by Bridge Now Academy in association with K.S. School of
Engineering and Management.

Handwritten signature

Head of the Department

Handwritten signature

Principal



ACS COLLEGE OF ENGINEERING

#207, Kambipura, Mysore Road, Bangalore – 560 074.

Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. Of Karnataka



Research and Development Cell

Presents Webinar on

“Patent Your Invention to Generate Value for Research”

Certificate

This is to certify that, Dr.Balaji.B of KSSSEM, Bangalore has participated in the webinar entitled “Patent your Invention to Generate Value for Research” organized by Research and Development Cell, ACS College of Engineering, Bangalore on 8th June 2020.


Mrs. Kavita K Patil
Coordinator


Mr. S. Vinodh Kumar
Coordinator


Dr. T. Senthilkumar
Dean-R&D


Dr. M. S. Muarali
Principal



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)

Certificate of Participation

This is to certify that **Dr. Balaji.B**, professor & HOD, Professor & HOD, KSSEM, Bangalore has participated in Webinar on **"ANSYS Mechanical and CFD Capabilities"** on **06th June 2020**, Conducted by Engineering Design Collegiate Club (EDCC) - Department of Mechanical Engineering - AVIT in Association with **Entuple Technologies**.

Prof. L. Prabhu
Head - Mechanical Engineering

Dr. K. L. Shunmuganathan
Principal - AVIT



**PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE**

Madurai to Sivagangal Highways, Arasanoor, Tamilnadu-630561
Approved by AICTE Anna University, Chennai



Certificate of Participation

This is to Certify that

Dr.B.Balaji

KSSEM, Bangalore

has actively participated in Webinar On " Stay Healthy ; Stay Positive" organised by
MHRDS INSTITUTION INNOVATION COUNCIL in association with Alumni Association
of Pandian Saraswathi Yadav Engineering College on 30th May 2020.



Dr.K.Palanichamy
Principal



GLOBAL ACADEMY OF TECHNOLOGY (A)



NAAC accredited with "A" Grade

Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka & Affiliated to Visvesvaraya Technological University, Belagavi
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru - 560098.

For Oneday workshop on

"New Approach to the Revised Assessment & Accreditation of NAAC"



in association with



Certificate

This is to certify that _____

Mr. B Balaji

of _____ **K S Institute of Technology, Bengaluru**

_____ has successfully attended

/ participated in workshop on the "New Approach to the Revised Assessment & Accreditation of NAAC" held at
Global Academy of Technology, Ideal Homes Township, Mysore Road, Rajarajeshwari Nagar, Bengaluru - 560 098,
Karnataka on January 4th, 2019.

Dr. N. Ratanpratap Reddy
Principal, GAR

Mr. Syed Mujahid
Director - ICARE RATINGS

Dr. KNB Murthy
Chairman, BITES

Indian Technology Congress 2018

Technology First

Make India Innovate, Excel Globally and Prosper

Connected Farming - Indian AgriTech Space

International Seminar on Students' Satellites

05-06 September 2018
NIMHANS Convention Centre
Bangalore

Certificate of Participation

This is to certify that

Mr. B. Balaji

Department of Mechanical Engineering

K. S. Institute of Technology, B.lore

participated in the Indian Technology Congress - 2018

during 05 - 06 September 2018

at NIMHANS Convention Centre, Bangalore.

Dr. L.V. Muralikrishna Reddy

Chairman - Organising Committee
Indian Technology Congress - 2018

Prof. R.M. Vasagam

Chairman - National Advisory Committee
Indian Technology Congress - 2018

Organised By



K S I T

KAMMAVARI SANGHAM (R) - 1952
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K. S. INSTITUTE OF TECHNOLOGY
#14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560109 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in



FACULTY DEVELOPMENT PROGRAMME

Certificate

This is to certify that Mr. / Ms. / Dr. Pralaji. B
of KSIT Institution has attended the

“Faculty Development Program” on “R & D Funding Opportunities and Intellectual Property Rights” Organized by “IPR / IET, KSIT” from

28th - 30th March 2016.

Q. M. M. S.
CONVENOR

[Signature]
PRINCIPAL



Nandi Institute of Technology and Management Sciences

Approved by AICTE, New Delhi ; Recognised by Govt. of Karnataka ; Affiliated to VTU, Belgaum

Campus : # 92, Vaderahalli, Harohalli Hobli, Kanakapura Main Road, Bangalore - 562112.

Phone : +91 802843 3403 / 3404 / 3406 Fax : +91 802843 3405 Website : www.nitms.edu.in

ONE-DAY FACULTY DEVELOPMENT PROGRAM

ON

“Need for Re-engineering our Pedagogy”

(Speaker : Dr. B. Seshadri, Member, High Power Committee for Redressal of Regional Imbalances in Karnataka)

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. / Mrs. **Balaji B.**

Dept. of *Mechanical... Engineering*... has participated in the ONE-DAY

Faculty Development Program organized by NIT-MS on 13th August 2013.

Shri. A. Rudra Goud
Chairman

Shri. T. Mahadev
Trustee – Secretary

Dr. Bheemsain Rao
Principal



VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM - 590014, KARNATAKA

FACULTY DEVELOPMENT PROGRAMME



Certificate

This is to certify that

Sri B. Balaji,

K. S. Institute of Technology, Bangalore

has participated in 'CAD, CAM, CAE Training Programme'

Conducted by M/s: UGS, Bangalore and Organized by

Visvesvaraya Technological University

at Belgaum from 7th March to 11th March 2005

Handwritten signature

Prof. M. S. Shivakumar
Registrar

D. K. Balasubrahmanyam
Vice - Chancellor

JGI

Sri Bhagawan Mahaveer Jain College of Engineering

Jain Global Campus, Jakkasandra Post, Kanakapura Taluk, Ramanagara District - 562 112

This is to certify that Sri.....

Department of Mechanical Engineering,

*has participated in the AICTE-ISTE Sponsored Short Term Training
Program on "DEVELOPMENTS IN THE FEM APPLICATIONS IN
MECHANICAL ENGINEERING" from 30 June to 4 July - 2008.*

Dr. V Vijaya Kumar
HOD - ME

Prof. A Vasudeva Murthy
Registrar

Prof. T S Sridhar
Principal

IJERT

International Journal of
Engineering Research & Technology
ISSN : 2278 - 0181, www.ijert.org
(Published by : ESRSA Publications)

CERTIFICATE OF PUBLICATION

This is to certify that

Dr. Balaji B

Has published a research paper entitled

Design & Performance Evaluation of 3-Blade Propeller for Multi-Rotor

UAV

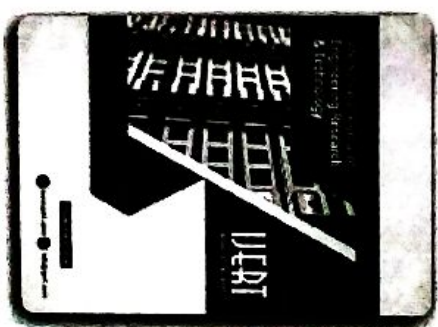
In IJERT, Volume 10, Issue 10, October - 2021



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Date: 08-11-2021

Chief Editor, IJERT





UGC Journal No : 47147

Scientific Journal Impact Factor = 7.136

Online ISSN : 2394-4099

Print ISSN : 2395-1990

International Journal of Scientific Research in Science, Engineering and Technology

CERTIFICATE OF PUBLICATION

Ref : IJSRSET/Certificate/Volume 9/Issue 9/7875

15-Mar-2022

This is to certify that **Dr. Balaji B** has published a research paper entitled '*Variation of Tensile, Hardness, Impact and Natural Frequency in Jute/E-Glass Epoxy Composite For Varying Fiber Loading and Addition of Shear Thickening Fluid*' in the International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Volume 9, Issue 9, January-February-2022.

This Paper can be downloaded from the following IJSRSET website link

<https://ijsrset.com/IJSRSET1229924>

IJSRSET Team wishes all the best for bright future

Editor in Chief

IJSRSET

Website : <http://ijsrset.com>

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

BALAJI B.

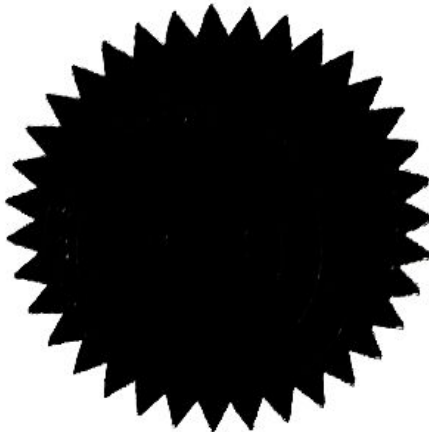
.....

LIFE MEMBER

*of the Society, an organisation for promoting
the quality and standards
in technical education.*

2004

.....



EXECUTIVE SECRETARY

014198



The Institution of Engineers (India)

MEMBERSHIP
CERTIFICATE

This Certificate of
Member is Granted to

BALAJI B

on the Twentyeighth day of
February TWO ZERO ONE SEVEN

In witness where of the said Institution has caused
its Common Seal to be affixed this Twentyeighth
day of February TWO ZERO ONE SEVEN



M-1573610

Sanjay
Member of Council

Bhattacharya
Secretary and Director General



KSIT

Kammavari Sangham (R) 1982
K.S. GROUP OF INSTITUTIONS

ಕೆ.ಎಸ್. ತಾಂತ್ರಿಕ ಸಹಾಯಿದ್ಯಾಲಯ

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E-mail : principal.ksit@gmail.com / principal@ksit.edu.in | Website : www.ksit.edu.in

Date: 16/05/2022

Place: Bangalore

National conference on Recent Innovation in Engineering -2022

CHIEF PATRONS

Sri R. Rajagopal Naidu
President, Kammavari Sangham

Sri R. Leela Shankar Rao
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Dr. Y N Srikanth
Member

Dr. Shyam Vasudeva Rao
Member

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

CONFERENCE CHAIR

Dr. Dilip Kumar K
Principal & Director

CONVENER

Dr. M. Umashankar
Professor & HOD, ME

CHIEF COORDINATORS

Dr. L. Nirmala
Associate Professor

Dr. Nagaprasad. K. S
Associate Professor

23rd & 24th June 2022.

To

Dr. Balaji B
Professor & Head, Mechanical Engg, KSSEM
Bangalore

Dear Sir,

Sub : TECHNICAL ADVISORY COMMITTEE member for
National conference on Recent Innovation in
Engineering -2022

Greetings to you from K.S. Institute of Technology

I am pleased to inform that, the Department of Mechanical Engineering of our Institute is organizing a **National Conference on Recent Innovation in Engineering -2022** during 23rd & 24th June 2022.

The aim of this conference is to provide a forum for Engineers, Scientists, academicians, Researchers & P.G. Students in the field of Mechanical Engineering for sharing and exploring new areas of research.

In this regard, we would like to inform you that you are a part of this conference as a TECHNICAL ADVISORY COMMITTEE member.

Please find enclosed herewith a detailed brochure about the conference.

We are looking for your kind reply regarding the same.

With warm regards

Yours truly

(Dr. Dilip Kumar K)

Principal & Director
PRINCIPAL

K.S. INSTITUTE OF TECHNOLOGY



K S I T
INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R)-1952

K. S. INSTITUTE OF TECHNOLOGY

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

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

Tel : 28435722 / 724 E-mail : principal@ksit.edu.in Web : www.ksit.edu.in

National Conference on Recent Innovations in Engineering- 2022

Organized by
Department of Mechanical Engineering
in association with



SAEINDIA
SAE INTERNATIONAL GROUP



Certificate of Appreciation

This is to certify that Mr./Ms./Dr.....**BALAJI..B**.....

has officiated as session chair / review committee member in the "National Conference on Recent Innovations in Engineering-2022" organized by Mechanical Engineering, K.S. Institute of Technology, Bengaluru during 23rd - 24th June 2022.

Dr. M. Umashankar
Conference Convener
Professor & Head, ME Dept

Dr. Dilip Kumar K
Conference Chair
Principal & Director



KSSEM
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

Kammavari Sangham (R) - 1952

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

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

#15, Mallasandra, Off Kanakapura Road, Bengaluru-560109

Department of Mechanical Engineering

CERTIFICATE

This is to certify that ~~Mr./Ms.~~ **Dr. B. BALAJI** ~~B~~ has secured **FIRST** place in the Project Exhibition held on 21st June, 2022.



Dr. B Balaji
Professor and Head



Dr. K Rama Narasimha
Principal/Director

STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE
Name	Dr. P N Jyothi	
Present Address, Mob.No., e-mail id.	Flat No 105, Gangothri Sapthagiri Pearl Apartment, Nagappa Block, Maruthi Layout Vasanthapura-61 9663080471 Jyothi.p.n@kssem.edu.in	---
Age and Date of Birth	45 & 27/10/1977	
Qualification	M.Tech, Ph.D.	
Designation and Department	Professor, Department of Mechanical Engineering	
Teaching Experience (After PG)	21 years	
Other Experience (If any)	Nil	
List of Subjects Taught till date (use separate sheet if necessary)	Annexure-1	
Number of FDPs attended since joining service (Attach Separate List)	Annexure-2	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practical's) (10marks for each x Percentage) If Online please indicate.	1. Metal Cutting and Forming- 3 rd Sem - 90% 2. Operations Management- 5 th Sem - 83% Results awaiting for 1. Operation Research- 8 th Sem - 100 2. Metal Casting & Welding- 4 th Sem 3. EME-2 nd Sem	373/40 37/310 Results awaited
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Fabrication of Solar Powered Air Purifier 2. Utilization of Waste Plastic & Foundry sand for making Sustainable Green Bricks/Blocks	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	-----	0/10

Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	100%	5/5
Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	1. Metal Cutting & Forming (III Sem)-99.56 2. Operations Management (V Sem)-90.86	4.76/5
Details of students mentored during current assessment year. (Furnish details)	9	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	External DCS Duty	2/2
Details on Examination related Activity (2 marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. DCS 4. Paper Setting	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1. Outcome Based Education @ KSIT 2. AICTE approved FDP on Operations Management-12 weeks	10/10
Financial Assistance received during current year for attending FDPs	NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1 mark.) 9. Not thought of pursuing Ph.D. (zero)	10/10

Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	<p>1. Influence of Nano graphite based Vegetable oils as Cutting Fluids for Mild Steel Drilling, International Journal of Scientific Research in Science, Engineering and Technology, Vol 9, issue 9, 2022, pg no251-264</p> <p>2. A Review on Sustainable Eco-friendly Cutting Fluids, Journal of Sustainability and Environmental Management (JOSEM), Vol.1, No. 2(2022), 306-320p</p>	10/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	presented paper at International Conf ⁿ	5/10
Financial Assistance received during current year for attending such events.	Nil	--
Registered as Research Guide (Reasons for not registering)	Yes	-
Research Scholars registered with details	Yes	5/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Nil	0/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	Workshop on Supply Chain mgmt Speaker → Dr. Milind (CCE) Goa	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Certified NPTEL Course on Operations Management	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Used NPTEL videos and Notes to understand the some difficult concepts, before discussing the topic in the class and to prepare questionnaire (Quiz)	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Utilization of Waste Materials (Waste Foundry Sand, Plastic Waste, Agro-Waste) for making Sustainable Green Bricks/Blocks -VGST- K-FIST L12-2021-22	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Nil	0/5

Consultancy Revenue Generated	Nil	0/5
Details of Participation in cultural events during the current year	Nil	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	<ol style="list-style-type: none"> 1. Criteria 6 Main Coordinator 2. College Project Committee Coordinator 3. Dept. Research Coordinator 4. SPP Coordinator 5. Students Idea club Coordinator 	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	<ol style="list-style-type: none"> 1. Life member of Indian Society for Technical Education(ISTE) LM38609 2. Institution of Engineers (INDIA)-M-1511852 	5/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOD.]	Badminton (held at KSSEM on 11/2/22 & held at PEST on 26 & 27th Feb 2022)	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOD.]	Admission Desk	10/10
TOTAL		158 /190

Date: 16/7/22

Signature of faculty



Comments from the HOD:

Verified all points


 Signature of the HOD

Comments of the Principal after the discussion:

A handwritten signature in green ink, appearing to read 'K. Brown', with a long horizontal stroke extending to the right.

Signature of the Principal

CEO

Annexure-1
Subject Handled Details

Name of Faculty: Dr Jyothi.P.N Designation: Professor

Year	Months	Sem/Subjects handled (Code)	Result (%)
2010	Aug-Dec	Elements of Mechanical Engineering(A/S)	91
		Elements of Mechanical Engineering(B/S)	100
		Elements of Mechanical Engineering(C/S)	93
2011	Feb-June	Elements of Mechanical Engineering,(D/S)	100
		Elements of Mechanical Engineering,(E/S)	93
		Quantitative Technique (MBA)	89
2011	Aug-Dec	Elements of Mechanical Engineering(A/S)	87.5
		Elements of Mechanical Engineering(C/S)	87.5
		Manufacturing Process I	98.5
2012	Feb-June	Elements of Mechanical Engineering(D/S)	97.83
		Manufacturing Process II	98.5
2012	Aug-Dec	Manufacturing Process I	94.8
		Manufacturing Process III	98
2013	Feb-June	Composite Material	100
		Non-Traditional Machining	100
		Quantitative Technique(MBA)	85
2013	Aug-Dec	Operation Research	100
		MPIII	96.96
2014	Feb-June	Non-Traditional Machining	100
		Foundry Technology	100
2014	Aug-Dec	MP I	92.64
		Operation Research	98.2
		Elements of Mechanical Engineering(G/S)	86.66
2015	Feb-June	Advanced Material Technology	100
		Non-Traditional Machining	100
2015	Aug-Dec	Operation Research	94.6
		Manufacturing Process III	96.96
		Manufacturing Process I	96
2016	Feb-June	MPII	96
		NTM	100
	Aug-Dec	OR	98.18
		MP III	98
2017	Feb-June	Machine Tools A/s	100
		Machine Tools B/s	99
		NTM	96.15
	Aug-Dec	MCW	80.83
		NTM	100
		OR	98.11
2018	Feb-June	Machine Tools & Operations	97.87

		Foundry Technology	100
	Aug-Dec	NTM	100
		Finance Management	100
		Operation Research (exit Scheme)	--
2019		Feb-June	Operation Research
	Foundry Technology (Exit Scheme)		--
	Aug-Dec	EME-G/S 1 st Sem	85
		Project Management (V Sem)	100
2020	Feb-June	EME-C/s(CSE)	No Exams
		Metal Forming(6 th Sem)	
	Aug-Dec	Metal Cutting and Forming-3 rd Sem	84
		Operations Management-5 th Sem	85.71
2021	Feb-June	Metal Casting and Welding-4 th Sem	No exam
		Operations Research-8 th Sem	100
	Aug-Dec	Metal Cutting and Forming-3 rd Sem	86
		Operations Management-5 th Sem	83
2021	Feb-June	EME C/S(CSE, CV & ME)-2 nd Sem	-
		Metal Casting & Welding -4 th Sem	-
		Operations Research- 8 th Sem(15/17 Scheme)	-

Annexure -2

Number of FDPs attended since joining service from 01/7/2010

SI No	Title	Place	Duration
1	FDP on Teaching & Learning Practices, Research Methodology & Writing Project Proposal	KSIT, Bangalore	24-25 Jan 2011
2	FDP Seminar on Aerospace Vehicles	KSGI, Bangalore	2-4 Feb 2011
3	Research Methodologies and Latex	S.J.B.I.T. Bangalore	09-10 May 2011.
4	FDP on "Teaching and learning Methodologies"	KSSEM, Bangalore	20-22 July 2011
5	Emerging Trends in Materials.	KSIT, Bangalore.	05-06 Dec 2011.
6	Academic Leadership Program" conducted jointly by VTU and Shruth and Smith Foundation	PESIT Campus, Bangalore.	2nd, 3rd and 4th March 2012.
7	"Exploring information sources for Research and Development".	JSSIT, Bangalore.	12th oct 2012.
8	Work Shop on Pedagogy for revised second semester MBA subjects & Skill Based Questions on QT-2.	PESIT, Bangalore	6 April 2013
9	National Seminar on "Advanced Material Research for industrial Application "	Dr. AIT, Bangalore	25th to 27th April 2013.
10	FDP on Recent Advances in Nano Devices & Sensor Technology	KSSEM, Bengaluru	08-11, July 2013
11	Work Shop on International Education Summit	PESIT, Adhyapan, Bangalore.	14th September 2013
12	FDP program on Research Methodology"	KSSEM ,Bangalore	Jan 30th 2014

13	Domain Knowledge Augmentation in Mechanical Engineering”	KSSEM, Bangalore	Jan 31th 2014
14	Three Day Faculty Development Program of Autodesk	DSCE Bangalore	27th-29th Jan 2015
15	Training the Trainer Workshop on Intellectual Property Rights Significance for Academia	KSSEM	31 st July 2015
16	Training on Pupil pod software	KSSEM	1 st August 2015
17	Outcome Based Education and Blooms Taxonomy”	KSSEM	4 th & 5th December 2015
18	One Day State Level Workshop on Intellectual Property Rights and Management	IISc, Bangalore	21th July,2016
19	Technical Staff Training Program (TSTP) on “Advanced Manufacturing and Material Characterization” Sponsored by Centre of Excellence in Advanced Materials Research (TEQIP-1.2.1)	BMS College of Engineering Bengaluru	16th-18th Feb 2017
20	Workshop on NBA Accreditation	DSATM, Bangalore	11 th to 13 Dec 2017
21	Attended Seminar on Industry Institution Interactive Meet-2018	Indian Machine Tool Manufacturers’ Association, Bangalore International Exhibition Centre, (BIEC)	25th Sept 2018
22	Attended two day workshop on “BITES Annual Convention 2018”	BMS College of Engineering, Bengaluru	23 rd & 24 th November 2018
23	Attended “New Approach To The Revised Assessment & Accreditation Of NAAC-2019”	Global Academy of Technology. Bangalore	4 th Jan 2019
24	Faculty Development Programme on New Product Development Using Creo	RNSIT, Bangalore	3rd May 2019
25	Faculty Development Programme on MATLAB & LATEX	KSIT, Bangalore	24 th to 26 th July 2019

26	Two days National Seminar on Additive and Advanced Manufacturing	BIT, Bangalore	29 th & 30 th 2019
27	3D Printing and Design Under AICTE (ATAL)	K S R Institute For Engineering and Technology. Under ATAL	7 Sept 2020 to 11 Sept 2020 -5 Days
28	Five Day Faculty Development Programme on "Research Tools"	International Institute of Organized Research (I2OR)	25/June/2020 to 30/June/2020 -5 Days
29	Advancements and Futuristic Trends in Materials and Mechanical Engineering,	BIT , Bangalore	27/July/2020 to 31/July/2020.- 5 Days
30	Advances In Mechanical Engineering	Jyothy Institute of Technology	11/July/2020 to 15/July/2020 - 5 Days
31	Importance of Hyper mesh in Analysis	KSIT	25/6/2020 to 26/6/2020 -2 days
32	Operations Management Under AICTE (ATAL)	Goa College of Engineering	16/8/21-20/8/21 5 Days
33	AICTE Approved FDP- Operations Management	NPTEL Course	12 Weeks

VTU, Belagavi Student Details

Manage student details under your supervision or co-guidance who are enrolled under VTU, Belagavi University

Professor Name: P N JYOTHI | College Name: KS School of Engineering and Management, Bengaluru

Candidate Name	USN (Give hall-ticket number if no USN)	Specialization	Guiding Type	Program	Caste	Registered on	Thesis Submitted	"Final" Viva Finished
			Supervisor	Ph.D	GM	17-Mar-2021	No	No

Save Clear

[< Back to Professor Profile](#)

Total: 1

Student Details	Guide Type	Program	Caste	Registered On	Thesis Submitted	Modify Delete
Viraja Deshpande (USN: BL16PHME385) VTU, Belagavi Manufacturing	Supervisor	Ph.D	GM	03-Aug-2017	No	Modify Delete

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22ME55S33191360
 To
 P N JYOTHI
 # 105, GANGOTRI SAPTHAGIRI PEARL APT
 NAGAPPA BLOCK, VASANTHAPURA
 BANGALORE
 KARNATAKA - 560061
 PH. NO :9663080471

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3
 An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
P N JYOTHI
 for successfully completing the course
Operations Management

with a consolidated score of **88** %

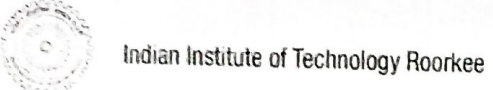
Online Assignments	18.75/25	Proctored Exam	69/75
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Total number of candidates certified in this course: 703

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

Jan-Apr 2022
 (12 week course)

Priti Maheshwari
Prof. Priti Maheshwari
 NPTEL Coordinator
 IIT Roorkee



Roll No: NPTEL22ME55S33191360

To P N JYOTHI
105, GANGOTRI SAPTHAGIRI PEARL APT
NAGAPPA BLOCK, VASANTHAPURA
BANGALORE
KARNATAKA - 560061
PH. NO :9662080471



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 12 Weeks



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

P N JYOTHI

for successfully completing the course
Operations Management

with a consolidated score of **88 %**


Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Apr 2022)


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

Roll No: NPTEL22ME55S33191360

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



Kammavari Sangham(R)1952

K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC
#14, Raghuvanahalli, Kanakapura Main road, Bengaluru-560109
Tel : 28435723 Email : principal@ksit.edu.in Web : www.ksit.edu.in



3 DAYS FACULTY DEVELOPMENT PROGRAM

on

“OUTCOME BASED EDUCATION”



Certificate of Participation

This is to certify that ...Dr...JYO.T.HI...P.N.....,...K.S.S.E.M.....

has participated in the 3 Days Faculty Development Program on “Outcome Based Education”

at K.S. Institute of Technology Bengaluru from 17th - 19th March 2022.

Dr. P. N. Sudha

Chief Coordinator NBA

Prof. & Head ECE Department

Dr. S. Bhaskar

Head - Office of PG Studies

Kumaraguru College of Technology

Dr. Dilip Kumar K.

Principal & Director K.S.I.T.

Dr. K. V. A. Balaji

CEO K. S. Group of Institutions



ANNUAL INTER COLLEGIATE STAFF TOURNAMENT

25th to 27th Feb, 2022



CERTIFICATE OF PARTICIPATION

Mr. / Ms. Dr. Jyothi P.N of KSGI

from BANGALORE has participated in BADMINTON Men / Women

in the Annual Inter Collegiate Staff Tournament of PES University, Bangalore held

from 25th to 27th February, 2022.

SPORTS DIRECTOR
PES University

VICE CHANCELLOR
PES University





Influence of Nano graphite based Vegetable oils as Cutting Fluids for Mild Steel Drilling

Viraja Deshpande¹, P.N. Jyothi²

¹Research Scholar VTU, R&D Mechanical Engineering, KSSEM, Bengaluru, Karnataka, India

²Professor, Department of Mechanical Engineering, KSSEM, Bengaluru, Karnataka, India

ABSTRACT

In last decades, a considerable attention is received by non-edible vegetable oils as Bio lubricant due to their eco-friendly products, increased remarkable improved tribological characteristics and as they are renewable sources. In this work, different vegetable oils namely Neem, sunflower, coconut, Karanja (Honge) and Neem oil (50% Neem & 50% Karanja) blend are used as cutting fluid for the drilling of Mild steel. The same vegetable oils with addition of Nano graphite powder are also used as Nano based bio-oils in the second stage experimentation. The effect on parameters of these cutting fluids like cutting temperature, cutting force, tool wear, chip formation, drilled hole surface roughness are studied. The results obtained are compared with petroleum based cutting fluids and at dry conditions. From the results, it is observed that the blend of 50% Neem and 50% Honge and sunflower oil is the best cutting fluid compared to other cutting fluids used in this work, more over these oils are environmentally friendly, non-hazardous, bio-degradable and economical.

Keywords: Mild Steel, Neem, sunflower, coconut, Karanja (Honge) and Neem oil (50% Neem & 50% Karanja) blend, Nano graphite powder

I. INTRODUCTION

During machining operation, relative motion between work piece and cutting tool produces the friction, resulting to generation of high temperature at the interface between tool- work piece and tool-chip. The heat generated decreases tool life, increases surface roughness and decreases the dimensional sensitiveness of work material. This case is more important when machining difficult-to-cut materials as heat would be observed. Various methods have been reported to protect cutting tool from the generated heat. Choosing coated cutting tools are an expensive alternative and generally it is a suitable approach for machining some materials such as titanium alloys, heat resistance alloys etc. The application of cutting fluids is another alternative that can be used to increase the tool life and also higher material removal rates can be achieved which is as shown in figure 1.

A Review on Sustainable Eco-friendly Cutting Fluids

Viraja Deshpande^{1*}, P N Jyothi²

¹Mechanical Engineering R&D, K S School of Engineering & Management, Bangalore, India

²Mechanical Engineering Department, K S School of Engineering & Management, Bangalore, India

*Corresponding author: virajadeshpande1989@kssem.edu.in

Abstract: In machining industries, cutting fluids plays a vital role as they are used to improve machinability and to have better productivity. Using mineral oil as cutting fluids has a negative impact on environment and also on the operator's health as it is non-bio-degradable and hazardous. Research work is been carried out for replacing these mineral oils by bio-degradable oils. The few vegetable oils possess characteristics of good cutting fluids such as viscosity, heat absorption capacity, fatty acid chains, biodegradability, non-toxicity etc. This paper reviewed research works carried out on different types of eco-friendly oils used as cutting fluids for different machining operations and on different materials. The effects of using different vegetable oils as cutting fluids on machining parameters have been discussed. From the results, it was observed that, the bio-oils possesses properties of good cutting fluids and has shown better results in terms of improving machining efficiency when compared to mineral or petroleum oils. These bio-oils possess better sustainability and biodegradability. Hence also called as eco-friendly cutting fluids. There is more scope for modification of bio-oils by having some additives and nano particles to have improved lubricating properties.

Keywords: Bio-degradable oils, Cutting fluids, Flooded cooling, Machining operations, Mineral oils, MQL

Conflicts of interest: None
Supporting agencies: None

Received 07.04.2022; Revised 08.05.2022; Accepted 18.05.2022

Cite This Article: Deshpande, V. & Jyothi P.N. (2022). A Review on Sustainable Eco-friendly Cutting Fluids. *Journal of Sustainability and Environmental Management*, 1(2), 306-320.

1. Introduction

The key objective of any Industries is to deliver finished goods as per the customers' requirements. In machining Industries, to deliver finished goods, raw metals are processed under various machining operations. During machining, the friction takes between work piece and tool which will lead to increase in heat at the machining zone. The heat generated will lead to tool wear and increases surface roughness of work piece. To minimize this heat generation between work piece and tool, cutting fluids were introduced in early 1900 (1984) which was reported by F.Taylor i.e. application of large amount of water as cutting fluid can increase 33% of cutting speed without affecting the tool life (Jeevan & Jayaram, 2018).

Later, lot of research works were carried out on different types of cutting fluids and mineral or petroleum based oils as cutting fluids. Majority of industries were using petroleum based oils as cutting fluids for machining. But, it was observed that, the use of mineral based cutting

fluids had negative impact on health related issues of operators like skin diseases, as well as environment pollution because of their non-biodegradability. To overcome these problems and to have green manufacturing system, the research work has been focused on eco-friendly cutting fluids. The property of eco-friendliness and biodegradability was found in vegetable based oils and therefore the vegetable based oils have gained attention to use as cutting fluids.

2. Literature Review

2.1. Vegetable based cutting fluids

Many researchers were started working on vegetable based oils which can be used as cutting fluids and have potential to replace mineral based oils. Lawal et. al. (2011) reviewed the application of vegetable oils as metalworking fluids in machining ferrous metals. The paper highlighted the advantages and disadvantages of

STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE
Name	Dr. Abhishek M R	
Present Address, Mob.No., e-mail id.	No. 4, Sai Sumukh, 1 st D main, Vivekananda Nagar, Kathriguppe, Bengaluru - 560085	---
Age and Date of Birth	37 Years-06/03/1985	
Qualification	Ph. D, M. Tech	
Designation and Department	Associate Professor, Mechanical Engineering	
Teaching Experience (After PG)	13 Years	
Other Experience(If any)	Nil	
List of Subjects Taught till date (use separate sheet if necessary)	List Enclosed	
Number of FDPs attended since joining service (Attach Separate List)	01	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Engineering Visualization - 100 2. Mechanics of Materials - 42 3. Engineering Visualization - 100 4. Kinematics of Machines - 100 * Results Awaited for 3 subjects	34.2/40
Details of UG Projects Guided (5 marks/ project guided)Provide Titles (HOD to endorse)	1. Design & Fabrication of Low Effort Running Cycle 2. Calibration of Strain Gauge on Curved Beam Setup	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	Not Applicable	0/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. Engineering Visualization (54/54) 2. Mechanics of Materials (53/52) 3. Engineering Visualization (Running Sem) 4. Kinematics of Machines (Running Sem)	5/5
Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.	$=\{(98.5+98.38)/2*100\}*5$	4.92/5

*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	1KG21ME400 to 1KG21ME413 (14 Students)	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	NIL	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Evaluation 4. Paper Setting	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	Hyper Mesh	5/10 *
Financial Assistance received during current year for attending FDPs	NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	10/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. Variation of Tensile, Hardness, Impact and Natural Frequency in Jute/E-Glass Epoxy Composite For Varying Fiber Loading and Addition of Shear Thickening Fluid 2. Design and Analysis of High Endurance Fixed Wing Multi-rotor UAV	10/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	Presented papers in international conference	5/10

Financial Assistance received during current year for attending such events.	NIL	0/5
Registered as Research Guide (Reasons for not registering)	No	0/5
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	NIL	0/5
Academic Programs organized and supported during current year.(Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	NIL	0/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	NIL	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	https://www.youtube.com/watch?v=AWAdA047B60&t=4s Lecture on Introduction to Engineering Visualization	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Fabrication of Low Effort Running Cycle (KSCST)	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	0/5
Consultancy Revenue Generated	NIL	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) NAAC 2 nd Criteria 2) Faculty Feedback & MS Teams coordinator 3) Industrial Visit coordinator 4) CAED lab In-charge 5) 6 th SEM Class teacher	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA	MISTE	2/5

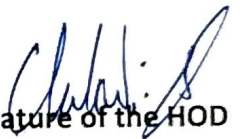
ISTE)(2marks for first membership &3 marks for second membership)		
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Disciplinary Committee Member 2. Coordinator for 200 m running	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Tele calling	10/10
TOTAL		132/190

Date: 15/07/2022


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

CEO

List of Subject Taught

Under graduate program

1. Engineering Graphics
2. Elements of Mechanical Engineering
3. Basic Workshop Laboratory
4. Mechanics of Materials/Strength of Materials
5. Kinematics of Machine
6. Machine Shop Laboratory
7. Design of machine elements – I
8. Theory of elasticity
9. Design of machine elements – II
10. Tribology
11. Mechanical Vibration
12. Design Laboratory
13. Experimental stress analysis
14. Non – conventional energy resources
15. Automobile engineering

Post graduate program

1. Advanced machine design
2. Fracture mechanics

FDPs Attended (2020-21)

1. Recent Advances & Trends in Mechanical Engineering & Material Science, KSIT, Bangalore



Variation of Tensile, Hardness, Impact and Natural Frequency in Jute/E-Glass Epoxy Composite For Varying Fiber Loading and Addition of Shear Thickening Fluid

Dr. Abhishek M R^{1*}, Dr. Suresh P M², Dr. Mruthunjaya M³, Dr. Balaji B¹

^{1*}Department of Mechanical Engineering, K S School of Engineering & Management, Off Kanakapura Road, Bengaluru -560109, Karnataka, India

²Department of Mechanical Engineering, A C S College of Engineering, Off Mysore Road, Bengaluru -560074, Karnataka, India

³Department of Mechanical Engineering, Dr. Vishnuvardhan Road JSSATE, Bengaluru - 560060, Karnataka, India

ABSTRACT

In the recent decade composite materials plays a significant role in the manufacturing sector of many industries contributing towards the social and economic development of a country. This is because of flexibility to combine different set of materials to bring out the desired properties in developed material. Many researchers performed experimental investigation on potential use of composite in various engineering application viz. structural components of automobile and aerospace application. In this regard current investigation is intended to tailor a hybrid fiber reinforced composite material constituting Jute, E – Glass and Epoxy matrix material. Traditional hand layup technique is adopted to cast the composite based on weight fraction. Thus casted composites are tested for Mechanical properties and vibration characteristics. Also the composites are tested for the effect of addition of Shear Thickening Fluid (STF). Scanning Electron Microscope (SEM) images were captured for the composites developed to validate the test results. Mechanical and dynamic test result indicates that addition of STF to composite improved the mechanical properties and vibration characteristics and has potential to be used in automobile application.

Keywords: Hybrid composites, Shear thickening fluid, Mechanical testing, Jute, E-glass, Epoxy

I. INTRODUCTION

Hybrid composite materials are those when two or more fibers combined together with the aid of a polymer resin [1]. The purpose for combining two or more fiber in composite is to develop the desired mechanical properties so as to be used in a specific application. In this regard many researchers performed research for the true worthiness of the developed composite. Also researcher tries many natural fibers as replacement for

Design and Analysis of High Endurance Fixed Wing Multirotor UAV

Dr. Balaji B¹, Dr. Abhishek M R², Arun V³

¹Professor and Head, Department of Mechanical Engineering, K. S School of Engineering and Management, Bangalore, Karnataka, India

²Associate Professor, Department of Mechanical Engineering, K. S School of Engineering and Management, Bangalore, Karnataka, India

³Research Scholar, Department of Mechanical Engineering, K.S School of Engineering and Management, Bangalore, Karnataka, India

ABSTRACT

Article Info

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Accepted : 10 April 2022

Published: 21 April 2022

Current work emphasis on research, design and development of a fixed wing multirotor Unmanned Ariel Vehicle (UAV) which operate under V - TOL configuration. In this investigation an effort is made to develop a high endurance and high payload capacity UAV which can have a payload capacity of 15 Kg and which can serve with the endurance of 2 hrs per cycle.

Keywords : UAV, V-TOL, Fixed wing UAV, Solar Hybrid, High Endurance

I. INTRODUCTION

Aerial vehicles have proved their capability in both military field such as patrolling, surveillance as well as reconnaissance, and civil areas including transport, rescue and agriculture of various applications over a hundred years, while enhancing their capabilities over time, and fulfilling ever-changing mission requirements. By means of smaller, safer and lighter platforms, UAVs propose an exclusive set of advantages compared to piloted aircrafts [1]. Military and civil operations are the main areas where these advantages are effectively utilized. In addition, future UAVs are expected to perform much more extended missions with higher aerodynamic performance and higher degrees of automatic flight. There are two prominent

categories of mini UAVs; fixed-wing UAVs and multi-rotors. Fixed-wing UAVs are mini UAVs with propelled electrical batteries with longer ranges than UAVs with similar sizes of multi-rotor systems that require a runway or launcher for landing and knockout [2] [1].

The Fig.1 illustrates the mission profile chosen for the UAV. The multi-rotor UAVs have rotor systems generally carrying three or four propellers that are capable of vertical take-off and landing (VTOL) and hovering over an area while carrying sufficient payload. In addition, they are more maneuverable than fixed wing UAVs with the ability of quickly transition from hover to cruise flight. However, the horizontally mounted rotor system is placed at the wings or the

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS
STAFF SELF APPRAISAL REPORT
2021-2022

KSSEM

Field	Data	SCORE
Name	HARSHA.J	
Present Address, Mob.No., e-mail id.	Flat No 302, Srinidhi Residency #10/30,6 th B Cross, Balajinagar BSK III Stage Bangalore-560085 Mob: 9632344550 Mail: harsha.j@kssem.edu.in harshajade@gmail.com	---
Age and Date of Birth	41 Years ,04/05/1981	
Qualification	BE, M Tech, Ph.D. (Pursuing)	
Designation and Department	Assistant Professor, Mechanical Engineering	
Teaching Experience (After PG)	11 Years	
Other Experience(If any)	05 years Industry 02 Years Teaching (Part Time)	
List of Subjects Taught till date (use separate sheet if necessary)	SHEET ATTACHED	
Number of FDPs attended since joining service (Attach Separate List)	SHEET ATTACHED	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1.Total Quality Management(18ME734)-100% 2.Fluid Power Engineering(18ME55)-96% 3.Workshop&Machine shop Lab-100% 4.Innovation & Design Thinking-Awaiting Results	39.6/40 ✓
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1.Design & Fabrication of Automatic Egg Incubator	10/10

	2.Design of Portable Turbine (Mini Project)	
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	NA	0
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1.TQM-40 2.FPE-50 3.WSL-13 4.IDT-25	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	1.TQM-99.24% 2.FPE-98.3% 3.IDT-98.67	5/5

*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	13 students of Final Year ME	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	Valuation @ GAT	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams-yes 2. Conduction of Theory exams-yes 3. Paper Setting-yes 4. Evaluation-yes	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	Hyper Mesh	5/10
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark)-Work in Progress 4. Experimentation/Data Collection in completed (1 mark) -Completed 5. Comprehensive viva voce completed (1 mark)-Completed	7/10

	<p>6. Appeared for Course work exams (1 mark)-Completed</p> <p>7. Applied for registration formalities (1 mark)-Completed</p> <p>8. Identified Guide/Research Centre and preparing research Proposal (1mark.)-Completed</p> <p>9. Not thought of pursuing Ph.D. (zero)</p>	
Research Publications: (5 marks each) Provide Full Details. HODs to verify.	Nil	0/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs.	1.IDT WORKSHOP @KSSEM	5/10
Financial Assistance received during current year for attending such events.	Nil	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Nil	0/5
Academic Programs organized and supported during current year. (Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	IDT WORKSHOP FOR 1 ST YEAR STUDENTS @KSSEM	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Nil	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<i>details regarding design thinking for 2 year students</i>	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Nil	0/5
Details of Project Funds	Nil	0/5

Received. (Including KSCST & VTU financial assistance)		
Consultancy Revenue Generated	Nil	0/5
Details of Participation in cultural events during the current year	Cultural Committee Head – 1. Freshers Day for 1 st Year Students 2. Aarohana 2022	
Additional Responsibilities In the Department/ College Example: Head, Coordinator , Accreditation etc. (2marks for each responsibility)	1) Cultural Committee-Head for College 2) NAAC-Criteria 2 Co ordinator-Department 3) Website Co ordinator-Department 4) News Letter Co ordinator-Head for College	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	Nil	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Aarohana 2022-Incharge Freshers Day 2022-Incharge	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Admission Committee Member	10/10
TOTAL		122/190

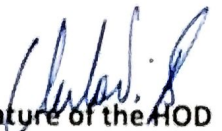
Date: 14/07/2022

Handwritten signature

Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

CEO

K S SCHOOL OF ENGINEERING & MANAGEMENT

DEPARTMENT OF MECHANICAL ENGINEERING

List of Subjects Handled till Date

Faculty Name-Harsha.J

SL NO	SUBJECT TITLE	THEORY/LAB	PASS %
1	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	94
2	HYDRAULICS&PNEUMATICS	THEORY	100
3	MATERIAL TESTING & METALLOGRAPHY	LAB	100
4	ENERGY CONVERSION	LAB	100
5	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	94.35
6	COMPUTER INTEGRATED MANUFACTURING	THEORY	100
7	MACHINEC SHOP	LAB	100
8	WORK SHOP	LAB	100
9	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	98
10	HYDRAULICS&PNEUMATICS	THEORY	100
11	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
12	WORK SHOP	LAB	100
13	COMPUTER INTEGRATED MANUFACTURING	THEORY	100
14	M/C SHOP	LAB	100
15	HYDRAULICS&PNEUMATICS	THEORY	89.23
16	AUTOMATION IN MANUFACTURING	THEORY	100
17	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
18	WORK SHOP	LAB	100
19	OPERATIONS MANAGEMENT	THOERY	91
20	COMPUTER INTEGRATED MANUFACTURING	THEORY	100
21	WORK SHOP	LAB	100
22	HYDRAULICS&PNEUMATICS	THEORY	100
23	AUTOMATION IN MANUFACTURING	THEORY	94
24	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
25	OPERATIONS MANAGEMENT	THEORY	94.54
26	COMPUTER INTEGRATED MANUFACTURING	THEORY	98
27	MACHINE SHOP	LAB	100
28	HYDRAULICS&PNEUMATICS	THEORY	96.23
29	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	94.5
30	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
31	COMPUTER INTEGRATED MANUFACTURING	THEORY	98
32	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	94
33	MACHINE SHOP	LAB	100
34	WORK SHOP	LAB	100
35	FLUID POWER SYSTEM	THEORY	100
36	BASIC MECHANICAL ENGINEERING	THEORY	73
37	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
38	COMPUTER INTEGRATED MANUFACTURING	THEORY	100

39	OPERATIONS MANAGEMENT	THEORY	96
40	MACHINE SHOP	LAB	100
41	FLUID POWER SYSTEM	THEORY	100
42	NON TRADITIONAL MACHINING	LAB	100
43	CIM LAB	THEORY	100
44	TOTAL QUALITY MANAGEMNT(ONLINE)	THEORY	100
45	METAL CUTTING & FORMNING(ONLINE)	LAB	100
46	MACHINE SHOP (ONLINE)	THEORY	100
47	FLUID POWER SYSTEM	THEORY	97
48	FLUID POWER ENGINEERING	LAB	100
49	CIMA LAB	THEORY	100
50	ADDITIVE MANUFACTURING	THEORY	100
51	TOTAL QUALITY MANAGEMENT(ONLINE)	LAB	100
52	FOUNDRY & FORGING LAB(ONLINE)	THEORY	96
53	FLUID POWER ENGINEERING	THEORY	100
54	TOTAL QUALITY MANAGEMENT(ONLINE)	LAB	100
55	WORKSHOP & MACHINE SHOP LAB	THEORY	NA
56	INNOVATION & DESIGN THINKING	THEORY	NA
GOVERNMENT POLY TECHNIC COLLEGE, CH NAGAR (2 YEARS)-PART TIME			
1	CAD,CAM & ROBOTICS (MTT)	THEORY	81
2	OPERATIONS MANAGEMNT & BEHAVIOUR - SCIENCES	THEORY	77
3	INDUSTRIAL MANAGEMENT	THEORY	75
4	PRODUCTION TECHNOLOGY	THEORY	79
GOVERNMENT ENGINEERING COLLEGE, CH NAGAR (2 YEARS)-PART TIME			
1	MATERIAL TESTING & METALLOGRAPHY	THEORY	88
2	AUTOMATION IN MANUFACTURING	THEORY	92
3	MATERIAL TESTING & METALLOGRAPHY	THEORY	85
4	TOTAL QUALITY MANAGEMENT	THEORY	80
5	MATERIAL TESTING & METALLOGRAPHY	LAB	100
6	MATERIAL TESTING & METALLOGRAPHY	LAB	100
VIDYAVIKAS INSTITUTE OF TECHNOLOGY, MYSORE (2 YEARS)			
1	ELEMENTS OF MECH ENGG	THEORY	94
2	AUTOMATION IN MANUFACTURING	THEORY	96
3	WORKSHOP	LAB	100
4	MATERIAL TESTING & METALLOGRAPHY	LAB	100
5	STATISTICAL QUALITY CONTROL	THEORY	91
6	ELEMENTS OF MECH ENGG	THEORY	95
7	FOUNDRY & FORGING	LAB	100
8	COMPUTER INTEGRATED MANUFACTURING& AUTOMATION	LAB	100
9	RELIABILITY ENGINEERING (M TECH)	THEORY	94
10	ELEMENTS OF MECH ENGG	THEORY	90
11	INDUSTRIAL ENGINEERING & ERGONOMICS	THEORY	98
12	WORKSHOP	LAB	100
13	MACHINE SHOP	LAB	100
14	AUTOMATION IN MANUFACTURING	THEORY	98

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K S GROUP OF INSTITUTIONS

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

No. 15, Mallasandra, off Kanakapura Road, Bengaluru - 560109
Phone : 080-28425012, Fax : +91-80-28425164, Web : www.kssem.edu.in



DEPARTMENT OF MECHANICAL ENGINEERING

Organising

One day Workshop

on

"Innovation & Design Thinking"

Resource persons:



Girish S Murthy
CEO, Printzkart



Veeresh I Meti
Senior Engineer
Printzkart

DATE: 08-04-2022 TIME: 10:00AM

VENUE: Aryabhata Seminar Hall



KSSEM
A SCHOOL OF ENGINEERING AND MANAGEMENT

K S SCHOOL OF ENGINEERING AND MANAGEMENT

Invitation

Students of first semester are cordially
inviting you for

"*Ethnic day*"

9:30 AM | APRIL | FRI | 29 | 2022 | BASKET BALL
GROUND

WE LOOK FORWARD TO CELEBRATE
OUR
DAY WITH YOU!

STAFF SELF APPRAISAL REPORT**2021-2022****KSSEM**

Field	Data	SCORE
Name	AKASHDEEP B N	
Present Address, Mob.No., e-mail id.	#113/4, OPP TO MANIPAL COUNTY, SINGASANDRA, BANGALORE – 68 9986346009 Akassdeep.b.n@kssem.edu.in	
Age and Date of Birth	38, 14/05/1984	---
Qualification	BE, MTech, (PhD)	
Designation and Department	Assistant Professor/Mechanical	
Teaching Experience (After PG)	13	
Other Experience(If any)		
List of Subjects Taught till date (use separate sheet if necessary)		
Number of FDPs attended since joining service (Attach Separate List)		--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Controle Engineering - 96% 2. Compute Aided Engg Drawing – 100% 3. Tribology – 100% 4. Compute Aided Engg Drawing –	40/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Synthesis and mechanical behaviour of AA5456 aluminium alloy as a matrix material nano-SiC as a reinforcement material by stir casting method 2. Synthesis and mechanical behaviour of AA5456 aluminium alloy as a matrix material nano-Mo2 as a reinforcement material by stir casting method	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. 2.	/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD	100%	5/5

to Endorse.		
Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	93%	5/5

*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	12	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	Practical Examiner.	02/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) "Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering". 2) Advances in Mechanical Engineering	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	7/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by	1. 2.	10/10

HODs. [Attach Certificate Copies]		
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No If 'Yes' furnish details.	-
Research Scholars registered with details	Yes / No If Yes, 5 marks	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.		/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	Work shop on Supply chain Management Speaker:- Dr. Milindar.	05/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Registered for NPTEL.	05/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Use of NPTEL Videos.	05/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details		/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) Time Table Coordinator. 2) Proctor. 3) NAAC Coordinator of Criteria 1. 4) Lab Incharge for Mechanical Measurement and Metrology lab. Design Lab	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA	1. The Institution of Engineers (India) 2. The Indian Society For Technical	5/5

ISTE) (2marks for first membership & 3 marks for second membership)	Education,	
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOD.]	1. Disciplinary comity in cultural event. 2. Coordinator in sports event.	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOD.]	1. Admisslon desk.	10/10
TOTAL		127/190

Date: 16/07/22 .


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal



RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated & NAAC Accredited with 'A' Grade)

UG Programs - CSE, ECE, EEE and EEE have been Accredited by NBA for the Academic years 2018-19, 2019-20, 2020-21 and 2021-22. Dr. Vishnuvardhan Road, Channasandra, Rajarajeshwari Nagar Post, Bengaluru-560 098

Ph: +9180 28611880 / 1, Fax: +91 80 28611882, Email: principal@rnsit.ac.in Website: www.rnsit.ac.in

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DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr. Akashdeep B N of K S School of Engineering Management has participated in 3 - Day Online Faculty Development Programme on "Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering", organized by the Department of Mechanical Engineering, RNS Institute of Technology, Bengaluru from October 28-30, 2021.


Dr. Salim Firdosh
FDP Co-ordinator

Sd/-


Dr. Mukesh Patil
Prof. & Head

Dr. M K Venkatesha
Principal

STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE
Name	Santosh Kumar K J	
Present Address, Mob.No., e mail id.	#40,41, 9 th Cross, Vijayabank Colony, Basavanapura Main Road, K R Puram, Bangalore 560036	
Age and Date of Birth	03/06/1985, 37 Years	
Qualification	M.tech, (Ph.D)	---
Designation and Department	Assistant Professor	
Teaching Experience (After PG)	10 Years	
Other Experience(if any)	No	
List of Subjects Taught till date (use separate sheet if necessary)	PTO	
Number of FDPs attended since joining service (Attach Separate List)	PTO	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Dynamics of Machines 2. Material Science 3. MT Lab 4. Finite Element Method 5. Mechanical Measurements & Metrology 6. CMM LAB	34/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Design and Fabrication of Conveyer mechanism using four bar mechanism 2. Study on Mechanical Behavior of SiC and Al ₂ O ₃ Nano Polymer Composites	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)		/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. 100 2. 100 3. 100 4. 100	5/5
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to	4.913	5/5

verify.		
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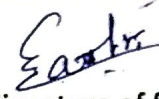
*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	Proctor for 3 rd Year Students	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	External Decs	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Evaluation 4. Paper Setting	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering 2) Role Of Mechanical Engineers in Aerospace Domain	10/10
Financial Assistance received during current year for attending FDPs		--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	7/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. 2.	/10

Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	NIL	/10
Financial Assistance received during current year for attending such events.	NIL	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.	NIL	/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	NIL Workshop on "supply chain manage-ment" Speaker:- Dr. Milind.	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Registered for NPTEL Course	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Used NPTEL Videos, YouTube Animation videos for Teaching	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	NIL	/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	/5
Consultancy Revenue Generated	NIL	/5
Details of Participation in cultural events during the current year	1. Won first prize in Carrom 2. Won first prize in Chess In AAROHANA-22 Staff Sports	
Additional Responsibilities in	1) Placement Coordinator	

the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	2) NAAC 5 Department coordinator 3) Lab Incharge 4) Proctor for 3 rd year Students 5) Alumni Coordinator	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	1. Member of ISTE, LM94768 2. Member of IAENG, Member No: 138548	5/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Staff Carrom Coordinator	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	1. Tele Calling 2. Admission Desk Duty	10/10
TOTAL		196/190

Date: 16/7/22


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

CEO

Number of FDPs attended since joining service

Sl. No.	Title of Workshop or Seminar Attended/Conferences	College/ Place	Date
1	Research Methodology	KSSEM	30 th January 2014
2	Domain Knowledge Augmentation in Mechanical Engineering	KSSEM	31 st January 2014
3	Integrated Multidisciplinary Design and 3D Modeling	NMIT	5 th august 2014
4	Material processing and characterization technics	SJCIT	10 th to 13 th June 2015
5	Training the trainer workshop on intellectual property rights significance for academia	KSSEM	30 th July 2015
6	Outcome based Education and Blooms Taxonomy	KSSEM	4 th and 5 th December 2015
7	Workshop on Advances in Mechanical Measurements	VIT	29 th and 30 th January 2016
8	Research Publication, Grants and IPR	TIE	8 th March 2019
9	An Overview of Teaching Techniques in Finite Element Methods	VTU RRC, Muddenahalli	30/12/2019 to 3/1/2020
10	Overview of Aerospace Technical Publications	KSSEM	10/6/2020
11	Advances and Research in Mechanical Engineering	KSSEM	20/7/2020 – 24/7/2020

12	Recent trends in advanced composites and smart materials and structure	BRCE	11/6/2021
13	Smart Materials: A Brief Introduction and its Future Scope	UVCE	20/7/2020
14	AI &ML: Basics and Principles	SJCIT	22/3/2021 – 27/3/2021
15	Role Of Mechanical Engineers in Aerospace Domain	BRCE	27/5/2021
16	Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering	RNSIT	28/10/2021- 30/10/2022

Number of FDPs attended since joining service

Sl. No.	Title of Workshop or Seminar Attended/Conferences	College/ Place	Date
1	Research Methodology	KSSEM	30 th January 2014
2	Domain Knowledge Augmentation in Mechanical Engineering	KSSEM	31 st January 2014
3	Integrated Multidisciplinary Design and 3D Modeling	NMIT	5 th august 2014
4	Material processing and characterization technics	SJCIT	10 th to 13 th June 2015
5	Training the trainer workshop on intellectual property rights significance for academia	KSSEM	30 th July 2015
6	Outcome based Education and Blooms Taxonomy	KSSEM	4 th and 5 th December 2015
7	Workshop on Advances in Mechanical Measurments	VIT	29 th and 30 th January 2016
8	Research Publication, Grants and IPR	TIE	8 th March 2019
9	An Overview of Teaching Techniques in Finite Element Methods	VTU RRC, Muddenahalli	30/12/2019 to 3/1/2020
10	Overview of Aerospace Technical Publications	KSSEM	10/6/2020
11	Advances and Research in Mechanical Engineering	KSSEM	20/7/2020 – 24/7/2020

12	Recent trends in advanced composites and smart materials and structure	BRCE	11/6/2021
13	Smart Materials: A Brief Introduction and its Future Scope	UVCE	20/7/2020
14	AI & ML: Basics and Principles	SJCIT	22/3/2021 – 27/3/2021
15	Role Of Mechanical Engineers in Aerospace Domain	BRCE	27/5/2021
16	Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering	RNSIT	28/10/2021- 30/10/2022



RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated & NAAC Accredited with 'A' Grade)

UG Programs - CSE, ECE, EEE and EEE have been Accredited by NBA for the Academic years 2018-19, 2019-20, 2020-21 and 2021-22. Dr. Vishnuvardhan Road, Channasandra, Rajarajeshwari Nagar Poost, Bengaluru-560 094

Ph: +9180 28611880 / 1, Fax: +91 80 28611882, Email: principal@rnst.ac.in Website: www.rnst.ac.in

ESTD 2003
Who Succeeds with a Difference

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr. Santosh Kumar K J of K S School of Engineering Management has participated in 3 - Day Online Faculty Development Programme on "Recent Trends in Applications of AI, ML, IoT and Robotics in Mechanical Engineering", organized by the Department of Mechanical Engineering, RNS Institute of Technology, Bengaluru from October 28-30, 2021.

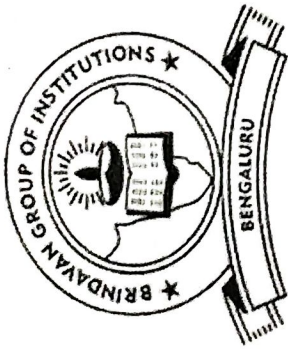


Dr. Salim Firdosh
FDP Co-ordinator

Dr. Mukesh Patil
Prof. & Head

Sd/-

Dr. M K Venkatesha
Principal



BRINDAVAN COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Approved by AICTE New Delhi, Recognized by Government, Affiliated to VTU, Belagavi

Accredited at the 'A' level by NAAC

Dwarkanagar, Bagaluru Main Road, Yelahanka, Bengaluru-560063

Phone: +91-80-28478423/28478388 Fax 080 28478766 www.brindavancollege.com



This is to certify that

Santosh Kumar K J

Of K S SCHOOL OF ENGINEERING AND MANAGEMENT

Has successfully participated in one day webinar on "Role Of Mechanical Engineers in Aerospace Domain" Organized by Department of Mechanical Engineering , Brindavan

College Of Engineering, Bengaluru held on 27 May 2021

Mr. Anil Kumar B.N.
Coordinator

Dr. Tilak S R
Coordinator

Mr. Harisha P
Coordinator

Dr. Sumod Deniel
HOD, Dept of Mech

Dr. Rajashekar Patil
Vice Principal, Dean R&D

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS
STAFF SELF APPRAISAL REPORT
2021-2022

KSSEM

Field	Data	SCORE
Name	Vinod A	
Present Address, Mob.No., e-mail id.	#99, Eshwara Layout, J P Nagar 7 th Phase Bengaluru-62, Mobile Number: 9902580429 Email id: vinod.sharma@kssem.edu.in	
Age and Date of Birth	33 years, 15/08/1988	---
Qualification	M. Tech (Ph.D)	
Designation and Department	Assistant Professor	
Teaching Experience (After PG)	7 Years and 11 months	
Other Experience(If any)	Worked as Assistant Engineer at Stovekraft Private Limited for 2 years and 3 months	
List of Subjects Taught till date (use separate sheet if necessary)	(Refer Annexure – A)	
Number of FDPs attended since joining service (Attach Separate List)		--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. Energy and Environment – 97.96% 2. Basic Thermodynamics – 31.81% * 36.5% 3. Fluid Mechanics and Machines lab – 100% 4. Applied Thermodynamics – 100 5. Fluid Mechanics – 100 f22	37.7/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. Experimental investigation of forced convection heat transfer through solid and perforated fins 2. Experimental analysis of heat exchanger with perforated discs inserts using MWCNT	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	Not Applicable	NA 0/10
Percentage of classes held (No. of classes taken / No. of classes allocated x 5) Give details. HOD to Endorse.	1. 40 classes conducted for 18ME751 – 100% 2. 60 classes conducted for 18ME33 – 100% 3. 12 classes for 18MEL57 – 100% 4. 16 classes for 18ME43(Running sem)	5/5

	5. 26 classes for 18ME42 (Running Sem) 6. 12 classes for 18MEL66 (Running sem)	
Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	1. Basic thermodynamics – 98.13%	4.9/5


*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	15 students belonging to first year 'C' Sec (10 Mechanical + 5 CSE)	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	External DCS to RVITM.	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams - ✓ 2. Conduction of Theory exams - ✓ 3. Paper Setting - ✓ 4. Evaluation - ✓	✓ 8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1. Completed Electronic Cooling Simulations using ANSYS Icepak (12 week course) from Skill Lync on 16/11/21	10/10
Financial Assistance received during current year for attending FDPs	Rs. Nil	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Thesis Preparation (2 Mark) 2. Experimentation/Data Collection in completed (1 mark) 3. Comprehensive viva voce completed. (1 mark) 4. Appeared for Course work exams (1 mark) 5. Applied for registration formalities (1 mark) 6. Identified Guide/Research Centre and preparing research Proposal (1mark.)	7/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. Numerical study of forced convection heat transfer through perforated fins	5/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by	1. Introduction to applied strength of materials organized by Skill Lync on 30/11/21	10/10

HODs. [Attach Certificate Copies]	2. Energy efficient cooling systems organized by Department of Mechanical Engineering, BMSCE, Bengaluru on 15/2/22	
Financial Assistance received during current year for attending such events.	Rs. Nil	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	0/5 N/A
Details of Patents Applied for (If any) One application 5 marks Provide Details.	Nil	0/5
Academic Programs organized and supported during current year. (Only FDP / Workshop /Seminar / Conference) . Do not include Webinars.	Certificate generated for the speaker for workshop on "understanding supply chains" by Dr. Arind from Goa coll. of Engg	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Registered for two NPTEL courses: 1. Computational fluid dynamics for incompressible flows (submitted 6 assignments) 2. The Joy of computing using Python (submitted 7 assignments)	5/5 ✓
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	<ul style="list-style-type: none"> Shared videos of various pollutions like air pollution, sand pollution, water pollution and its effects (You tube videos) 	5/5 ✓
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Nil	0/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Nil	0/5
Consultancy Revenue Generated	Nil	0/5
Details of Participation in cultural events during the current year	Participated in Carrom event and won the prize	

Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1. Proctor 2. NAAC coordinator for criteria 4 3. Lab In charge for Fluid Mechanics and Machinery lab 4. Department sports coordinator 5. Department Library coordinator	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	Nil	0/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOD.]	1. Coordinated for VTU sports event Throw ball – Women (6/6/22 – 7/6/22) 2. Coordinated for Chess event during Aarohana 2022	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOD.]	1. Admission desk duty 2. Visited PU colleges nearby Chintamani for Admission/Branding 3. Represented college at Public TV education expo 2022	10/10
TOTAL		137/190

Date: 18/3/2022


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

CEO

Annexure A

List of Subjects Handled since joining the service

Sl. No.	Subject	Year	Percentage
1	Basic Thermodynamics	2014 ODD	48
2	Turbomachines	2014 ODD	58
3	Applied Thermodynamics	2015 EVEN	70
4	Heat and Mass Transfer	2015 EVEN	58
5	Basic Thermodynamics	2015 ODD	72
6	Elements of Mechanical Engineering	2016 EVEN	92
7	Heat and Mass transfer	2016 EVEN	92
8	Basic Thermodynamics	2016 ODD	68
9	Elements of Mechanical Engineering	2016 ODD	87
10	Fluid Mechanics (A&B)	2017 EVEN	62
11	Basic Thermodynamics	2017 ODD	68
12	Non-Conventional Energy Sources	2017 ODD	100
13	Heat Transfer	2018 EVEN	95
14	Applied Hydraulics (Civil)	2018 EVEN	78
15	Basic Thermodynamics	2018 ODD	79
16	Fluid Mechanics (Civil)	2018 ODD	70
17	Applied Thermodynamics	2019 EVEN	42
18	Applied Hydraulics (Civil)	2019 EVEN	80
19	Basic Thermodynamics	2019 ODD	90
20	Fluid Mechanics (Civil)	2019 ODD	70
21	Applied Thermodynamics (1/2) – Online	2020 EVEN	100
22	Applied Hydraulics (Civil) - Online	2020 EVEN	100
23	Heat Transfer (1/2) – Online	2020 EVEN	100
24	Turbomachines	2020 ODD	68.9
25	Elements of Mechanical Engineering	2020 ODD	56.5
26	Heat Transfer (Online)	2021 EVEN	--
27	Non-Conventional Energy Sources (Online)	2021 EVEN	--
28	Energy and Environment	2021 ODD	97.96
29	Basic Thermodynamics	2021 ODD	31.81 36.36

Atty R.V.

B. FDP's and workshops attended (Recent first)

1. 'Energy Efficient Cooling Systems' organized by BMSCE, Bengaluru on 15/2/2022.
2. 'Introduction to applied strength of Materials' organized by Skill Lync on 30/11/2021.
3. 'Electronics cooling simulations using ANSYS Icepak' from Skill Lync from Sep 2021 – Nov 2022.
4. 'Emerging trends in Automotive and Energy Systems' held from 23/08/2021 to 27/08/2021 organized by Sree Vidyaniketan Engineering College, Tirupati
5. Effective utilization of VTU subscribed e-sources Anywhere, Anytime, Any device using KSSEM Digital Library Powered by Knimbus on 23/8/2021

6. Recent Advances in HVAC and Refrigeration organized by NMIT from 14/12/2020 to 19/12/2020
7. FDP on Virtual Labs for affiliated Engineering colleges under VTU Belagavi in association with NITK, Suratkal on 20/10/2020
8. Linear Algebra and its importance in Engineering, Technology & culture organized by Skill-Lync on 11/12/2020
9. Turbulence and CFD conducted by Skill-Lync on 04/07/2020
10. Engineering Analysis for Thermofluids and Research Challenges using ANSYS conducted by VTU from 27/7/2020 to 31/7/2020
11. Advances and research in Mechanical Engineering Conducted by KSSEM from 20/7/2020 to 24/07/2020
12. Air Delivery systems and Indoor Environment Quality conducted by CCE-IITM from 2/3/2020 to 7/3/2020.
13. Computational fluid Dynamics @CCE-IISc. Bangalore from 13/8/2018 to 17/8/2018
14. Design Nuances in Incompressible and Compressible flow Turbomachines @ CCE-IISc from 17/10/2016 to 21/10/2016
15. Computerized Heat & Mass Transfer Laboratory at Jyothy Institute of Technology from 14/12/2015 to 18/12/2015
16. Outcome based Education & Bloom's Taxonomy at K.S.S.E.M from 4/12/2015 to 5/12/2015
17. Training the Trainer Workshop on Intellectual Property Rights Significance for Academia at K.S.S.E.M on 31/7/2015

Conference paper published

1. "Numerical study of Forced convection through perforated fins" at National conference AMIET 2020 organized on 15/10/2020 by Amity School of Engineering and Technology, Amity University Haryana, Gurugram, India.



CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT

Mr. VINOD A

from K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

has participated in the One-Day Workshop on "**Energy Efficient Cooling Systems**", organize the Department of Mechanical Engineering, **B.M.S. College of Engineering, Bengaluru** as a part of the Scientific Social responsibility policy of the DST-SERB funded project on February 15, 2022.

Dr. Rudra Naik

Program Coordinator & Principal Investigator
DST-SRB Project

Dr. S. Muralidh
Principal, BMS

SKILL LYNC

CERTIFICATE OF PARTICIPATION

VINODA

for attending the workshop on

Introduction to applied strength of materials

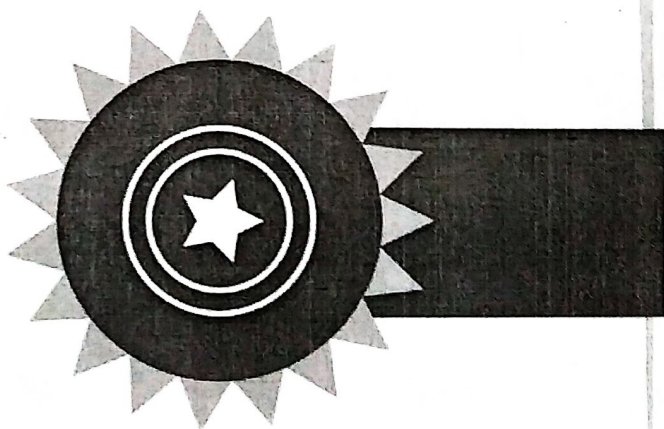
30 Nov 2021

SURRYANARAYANAN P

Date:

Program Director

Certificate UID : sz8hkordxv



CERTIFICATE OF COMPLETION

PRESENTED TO

VINODA

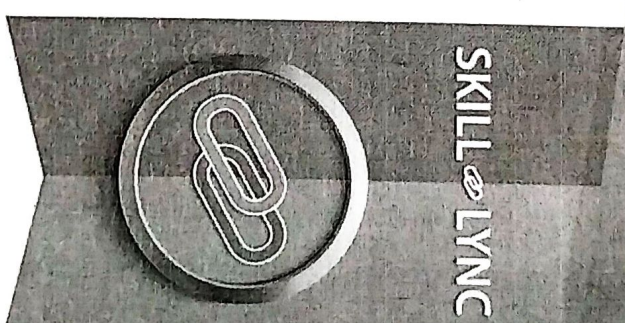
FOR SUCCESSFUL COMPLETION OF

Electronic Cooling Simulations using ANSYS ICEPAK

In appreciation of your hard work & continuous improvement that led to the completion of the coursework on 16 November 2021

Program Director : SARANGARAJAN V

Certificate UID : pwrkbr4czyuenz



POWER LEARNING TECHNOLOGIES PRIVATE LIMITED
No 1, Gopichandri Nagar, 1st Cross Street,
Chokkiperi, Chennai - 600044, TamilNadu, India

skill-lync.com
support@skill-lync.com

STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE
Name	PRABHU K S	
Present Address, Mob.No., e-mail id.	#89, SECOND FLOOR, SECOND MAIN ROAD, SAMPIGE LAYOUT WEST, PRASHANTH NAGARA, PATTEGARA PALYA MAIN ROAD, BENGALURU 560079 7892650656 Prabhu.ks@kssem.edu.in	---
Age and Date of Birth	34 & 31-07-1989	
Qualification	M Tech in Thermal Power Engineering	
Designation and Department	Assistant Professor	
Teaching Experience (After PG)	7 Years	
Other Experience(If any)	2 Years Aerospace Industry	
List of Subjects Taught till date (use separate sheet if necessary)	Annexure 1	
Number of FDPs attended since joining service (Attach Separate List)	Annexure 2	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practical's) (10marks for each x Percentage) If Online please indicate.	1. Energy and Environment 100% 2. Energy Engineering (Parallel Batch) 100% 3. Energy Conversion Lab 100% 4. Elements of Mechanical Engineering - 72.42% 5. Energy Engineering - 100% 6. Non Conventional Energy Sources - 7. Heat Transfer - 8. Heat Transfer Lab - 100%.	40/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. PERFORMANCE ANALYSIS OF REFRIGERATOR USING LPG 2. Furnissivity apparatus	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. 2.	NA/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. $(44/44) \times 5 = 5$ 2. $44/44 \times 5 = 5$ Single subject 3. $40/40 \times 1 = 1$ 4. $45/45 \times 1 = 1$ 5. $44/44 \times 1 = 1$	5/5

Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	94%	4.7/5
--	-----	-------

*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	8 th Sem Students – 16 4 nd Sem Students - 08	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	External Practical Examiner External DCS Govt. SKSIT	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	1) Research Tools And Methodologies 2) Outcome Based Education @ KSIT	10/10
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Awarded (2 marks) 2. Thesis Submitted and awaiting reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) 5. Comprehensive viva voce completed (1 mark) 6. Appeared for Course work exams (1 mark) 7. Applied for registration formalities (1 mark) 8. Identified Guide/Research Centre and preparing research Proposal (1mark.) 9. Not thought of pursuing Ph.D. (zero)	1/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops /	1. Energy Efficient cooling systems at BMS	

Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	college of Engineering 2.	5/10
Financial Assistance received during current year for attending such events.	Rs.	--
Registered as Research Guide (Reasons for not registering)	No	-
Research Scholars registered with details	No	/5
Details of Patents Applied for (If any) One application 5 marks Provide Details.		/5
Academic Programs organized and supported during current year.(Only FDP /Workshop /Seminar / Conference) . Do not include Webinars.	Workshop on supply chain management Speaker. Dr. Millind HOD College of Enff.	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Used NPTEL videos and Notes to understand the some difficult concepts, before discussing the topic in the class.	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	used NPTEL videos & notes	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details		/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Nil	/5
Consultancy Revenue Generated	Nil	/5
Details of Participation in cultural events during the current year		
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1) NAAC CRITERIA 3 DEPARTMENT 2) Department test Coordinator 3) Department Internship Coordinator 4) Proctor 4 th and 8 th Semester 5) Lab Incharge Energy Conversion Lab	10/10
Details of Live Membership for		

Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)		/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]		5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	Admission Desk Tele calling	10/10
TOTAL		125.7/190 125.7/190

Date: 15/07/2022


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

Annexure 1

SL. NO	SUBJECTS THOUGHT (CAY 2015-16 TO TILL DATE)	PASS %
K S SCHOOL OF ENGINEERING AND MANAGEMENT		
CAY 2021-22		
1	Energy Engineering (Parallel batch)	100%
2	Energy and Environment	100%
3	Elements of Mechanical Engineering (D & E Sec)	77/4 76-1.
4	Heat Transfer	
5	Energy Engineering	97-1.
6	Non Conventional Energy Sources	
CAY 2020-21		
1	Energy Engineering	100%
2	Elements Of Mechanical Engineering	73 %
3	Fluid Mechanics	COVID -19 PROMOTED
4	Non Conventional Energy Sources	
CAY 2019-20		
5	Energy Engineering	100%
6	Engineering Graphics	100%
7	Elements Of Mechanical Engineering (B & D Sec)	COVID -19
CAY 2018-19		
8	Energy Engineering	100%
9	Engineering Graphics	100%
10	Heat Transfer	94%
NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY		
CAY 2017-18 (Autonomous, Supplementary)		
1	Automobile Engineering 1 – (Autonomous) (A, B & C Sec)	95%
2	Automobile Engineering 2 – (Autonomous) (A, B & C Sec)	100%
CAY 2017-18		
3	Power Plant Engineering – (Autonomous) (B & C Sec) (Course	100%
4	Hydraulics & Pneumatics – (B Sec)	100%
5	Refrigeration and Air Conditioning – (Autonomous) (B & C Sec)	100%
6	Automobile Engineering 2 – (Autonomous) (A Sec)	95%
CAY 2016-17 (Autonomous Supplementary)		
7	Automobile Engineering 1 – (Autonomous) (A, B & C Sec)	90%
8	Automobile Engineering 2 – (Autonomous) (A, B & C Sec)	100%
CAY 2016-17		
9	Automobile Engineering 1 – (Autonomous) (B & C Sec)	85%
10	Operation Research – (C Sec)	85%
11	Automobile Engineering 2 – (Autonomous) (B & C Sec) (Course	95%
12	Bio Mass Energy System – (B Sec)	100%

CAY 2015-16

13	Total Quality Management – (B Sec)	100%
14	Operation Research – (B Sec)	80%
15	Heat and Mass Transfer – (A Sec)	92%

Annexure 2

Sl No.	FDP		
	Date	Topic	Organization
1.	17 March 2022 To 19 March 2022	Outcome Based Education	KSIT
2.	21 Sept 2021 To 01 Oct 2021	Research Tools And Methodologies	Lendi Institute of Engineering and technology
3.	14 Dec 2020 To 19 Dec 2020	Recent Advances in Heating, Ventilation, Air-conditioning and Refrigeration	Department of Mechanical Engineering, NMIT, Bengaluru-64, Sponsored by AICTE-ISTE.
4.	27 July 2020 To 31 July 2020	Engineering analysis for Thermo fluids Research Challenges Using ANSYS	VTU, Department of Mechanical Engineering, Kalaburagi.
5.	27 July 2020 To 31 July 2020	Recent Advances and Trends in Mechanical Engineering and Material Science	Department of Mechanical Engineering, K S Institute of Technology, Bengaluru.
6.	20 July 2020 To 24 July 2020	Advances and Research in Mechanical Engineering	Department of Mechanical Engineering, K S School of Engineering and Management, Bengaluru.
7.	06 July 2020 To 10 July 2020	Recent Advances in Smart Materials for Sensors and Energy Applications	Organized by Department of Physics, BMS Institute of Technology and Management, Bengaluru
8.	09 June 2020 To 13 June 2020	Research Trends in Thermal Engineering – 2020 (Webinar)	Department of Mechanical Engineering, BITM, Ballari – 583 104
9.	22 July 2019 To 26 July 2019	An Overview of Teaching Techniques in Turbomachines	AICTE-VTU Joint Training Programme for Teachers, VTU Centre for Post Graduate Studies, Muddenahalli 562 101
10.	16 Jan 2019 To 18 Jan 2019	Aspects of Effective Programming and Research	Organized by K S Group of Institution in association with KSIT IEEE SB.
11.	30 Nov 2018 To 4 Dec 2018	Thoughtful Cooling	Department of Mechanical Engineering, NCET, Bengaluru in association with eBalance.
12.	17 Oct 2017	Flip Teaching	NCET, Bengaluru, in association with IEEE SSIT ES Joint Bengaluru Chapter

13.	16 Oct 2017	Project Based Learning	NCET, Bengaluru, in association with IEEE SSIT ES Joint Bengaluru Chapter.
14.	11 Sept 2017 To 16 Sept 2017	Robotics Simulation Software RT Toolbox - 2	NCET, Bengaluru, in association with Future Robotics & Automation
15.	04/03/2017	Infusion 2017	Organized by Institute of Industrial Design and CADD centre, Bengaluru.
16.	24 Nov 2016	Skills for Success - Communication and Relationship Skills	Department of Basic Science and Humanities, NCET, Bengaluru
17.	24 Sept 2016 To 28 Sept 2016	Scilab-An Open Source Programming Language	NCET, Bengaluru
18.	25 July 2016 To 30 July 2016	Advances in Mechanical Engineering	NCET Bengaluru, Supported by ISHRAE, Bengaluru Chapter
19.	20 Feb 2016 To 21 Feb 2016	Applications of MATLAB for Mechanical Engineers	SVCE, Bengaluru in association with infIDOF Solutions.



LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution Under JNTUK. Accredited by NAAC with 'A' Grade & NBA
Jonmada (Village), Denkada (Mandal), Vizianagaram Dist. - 535 005.

Phone No. 08922-24111, 24112, E-Mail: lendi_2008@yahoo.com Website: www.lendi.org



CERTIFICATE

OF PARTICIPATION

RTM1711

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Mr. Prabhu K S

K S School Of Engineering And Management Bengaluru

for participating in the One Week International Online Faculty Development Program on
"RESEARCH TOOLS & METHODOLOGIES" held from 27th September - 01st October 2021, organized
by the Department of Mechanical Engineering, Lendi Institute of Engineering & Technology

Dr. Satish Pujari

Convenor, RTM 2021

Dr. V.V. Rama Reddy

Head of the Institution

Mr. Daniel Silas Kumar. M

Coordinator, RTM 2021



Kammavari Sangham(R)1952

K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC

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

Tel : 28435723 Email : principal@ksit.edu.in Web : www.ksit.edu.in



3 DAYS FACULTY DEVELOPMENT PROGRAM

ON

“OUTCOME BASED EDUCATION”

Certificate of Participation

This is to certify that Mr. P.RABHU.....K.S.....K.S.S.E.M.....

has participated in the 3 Days Faculty Development Program on “Outcome Based Education”

at K.S. Institute of Technology Bengaluru from 17th - 19th March 2022.

P. N. Sudha

Dr. S. Bhaskar

Head, Office of PG, Staff &
Administrative College of Technology

Dr. Dilip Kumar K.

Principal & Director K.S.I.T.

Dr. K. V. A. Balaji

CEO K. S. Group of Institutions



CERTIFICATE

_____ OF PARTICIPATION _____

THIS IS TO CERTIFY THAT

Mr. PRABHU K S

from _____
K S SCHOOL OF ENGINEERING AND MANAGEMENT

has participated in the One-Day Workshop on "Energy Efficient Cooling Systems", organized by the Department of Mechanical Engineering, B.M.S. College of Engineering, Bengaluru as a part of the Scientific Social responsibility policy of the DST-SERB funded project on February 15, 2022.

Dr. Rudra Naik

Program Coordinator & Principal Investigator
DST-SRB Project

Dr. S. Muralidhara

Principal, BMSCE

STAFF SELF APPRAISAL REPORT**2021-2022****KSIT**

Field	Data	SCORE
Name	NISHCHITHA A H	
Present Address, Mob.No., e-mail id.	#1866,4TH H BLOCK , VRISHABHAVATHI LAYOUT, GUBBALALA MAIN RD, BANASHANKARI 6TH STAGE, BANGALORE-560062. PH.NO:8618483908 MAIL.ID: nishchitha@kssem.edu.in	---
Age and Date of Birth	27 years. DOB: 19/11/1994	
Qualification	M.Tech(MSE)	
Designation and Department	ASSISTANT PROFESSOR, MECHANICAL	
Teaching Experience (After PG)	1.5 YEAR	
Other Experience(If any)	1 YEAR INDUSTRY EXPERIENCE	
List of Subjects Taught till date (use separate sheet if necessary)	1. COMPUTE AIDED MACHINE DESIGN 2. ELEMENTS OF MECHANICAL ENGINEERING 3. NON TRADITIONAL MACHINING	
Number of FDPs attended since joining service (Attach Separate List)	NILL	--
*Subjects taught in the Assessment Year and percentage pass (Both Theory & Practicals) (10marks for each x Percentage) If Online please indicate.	1. CAMD. 97% 2. EME. 71% 3. CI M LAB 100% 4. ATM (100%)	38.8/40
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1. STUDY ON FRICTION STIR WELDING OF AL5052 AND AL7075 USING EXAGONAL TOOL PROFILE. 2. STUDY ON FRICTION STIR WELDING OF AL5052 AND AL6061 USING EXAGONAL TOOL PROFILE.	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	NIL	/10
Percentage of classes held (No.	1. 100	

of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	2. 100 3. 100 4. 100	5/5
Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify.	4.81	5/5

*Marks to be awarded for subjects for which end exam was conducted

Details of students mentored during current assessment year. (Furnish details)	PROCTOR FOR 1 ST YEAR STUDENTS	--
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	<i>External duty.</i>	2/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams 2. Conduction of Theory exams	20/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	NIL	/10
Financial Assistance received during current year for attending FDPs	NIL	--
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	1. Identified Guide/Research Centre and preparing research Proposal (1mark.)	1
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	NIL	/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. 3D printing workshop- CIIRC- JIT	5/10
Financial Assistance received during current year for attending such events.	NIL	--
Registered as Research Guide (Reasons for not registering)	NIL	-
Research Scholars registered	NIL NA	/5

with details		
Details of Patents Applied for (If any) One application 5 marks Provide Details.	NO	/5
Academic Programs organized and supported during current year.(Only FDP/Workshop/Seminar / Conference) . Do not include Webinars.	NIL Seminars on auto desk Supply chain management. (Cookshop) By Speaker: Dr. Mallikarjun Goa college of Engineering	5/5 ✓
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	Registered for NPTEL course	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	Used NPTEL Videos, YouTube Animation videos for Teaching	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	NIL	/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	NIL	/5
Consultancy Revenue Generated	NIL	/5
Details of Participation in cultural events during the current year	1. Shot put 1 st place 2. Discus throw 1 st place 3. Cooking without fire 2 nd place 4. Participated in chess and carom	
Additional Responsibilities in the Department/ College Example: Head, Coordinator , Accreditation etc.(2marks for each responsibility)	1)INTERNAL ASSESSMENT COORDINATOR 2)CRITERIA 1, CRITERIA 7 (NAAC) 3)SOCIAL MEDIA AND WEBSITE COORDINATOR 4)LAB INCHARGE	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE)(2marks for first membership &3 marks for second membership)	NIL	/5

Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> 1. Shot put 1st place 2. Discus throw 1st place 3. Cooking without fire 2nd place 4. Participated in chess and carom 	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	<ol style="list-style-type: none"> 1. Admission Desk duty 2. Branding through social media. 	10/10
TOTAL		111.8/190

Date: 16/7/2022


Signature of faculty

Comments from the HOD:

Verified


Signature of the HOD

Comments of the Principal after the discussion:


Signature of the Principal

CEO



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JYOTHY CHARITABLE TRUST[®]

JYOTHY INSTITUTE OF TECHNOLOGY

Thathaguni, Off Kanakapura Road, Bengaluru - 560082

(Affiliated to Visvesvaraya Technological University, Belagavi)

(Approved by AICTE, New Delhi) & Accredited by National Board of Accreditation (NBA)

CERTIFICATE OF PARTICIPATION

This is to certify that **Ms. Nishchitha A H** From **KSSEM, Bangalore**, has attended three day Hands on workshop on "3D PRINTING for Innovative Research and knowledge development" held during 2nd June to 04th June 2022 jointly organized by CIIRC, Jyothy Institute of Technology, in association with KSTA, Bengaluru

Convenor

Organizing Secretary

Principal