KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	Dr.BALAJI.B	
Present Address, Mob.No., e-mail id.	#37, 10th A cross, 4th main road, Srinivasa Nagar, BSK 3rd stage, Bangalore- 85 Mob : 9845496309 hod.mech@kssem.edu.in	---
Age and Date of Birth	45 years, 03/06/1976	
Qualification	M.Tech, Ph.D	
Designation and Department	Prof & HOD, Mechanical Engineering	
Teaching Experience (After PG)	15 years	
Other Experience(If any)	04 years teaching after B.E & 3 years Industry	
List of Subjects Taught till date (use separate sheet if necessary)	List Enclosed	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1.Design of Machine Elements -I / 18ME52 2 Design of Machine Elements -II / 18ME62 3.Project Phase & Internship 4.Project phase & Technical seminar	37.8/40
Details of UG Projects Guided (5 marks/ project guided) Online	1.Design & Fabrication of Rover Based on Roker Bogie Mechanism 2.Design & Fabrication of Recumbent Wheel Chair	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	NA	/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	100	5/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	1.Design of Machine Elements -I (99.2) 2 Design of Machine Elements -II (99.4)	4.97/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	

Number of FDPs attended since joining service (Attach Separate List)	25	--

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

Details of students mentored during current assessment year.	5	--
Details of Participation in VTU Bodies (2 Marks)	---	0/2
Details on Examination related Activity (2marks each)	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)	1)Advances & Research in Mechanical Engineering 2) Advances & Futuristic trends in Materials & Mechanical Engineering	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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) [Attach copies of Title Page]	1. 2.	0/10

Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	1.Patent your invention to generate value for research. 2. Ansys Mechanical & CFD Capabilities	10/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	No (Applied last year only for research guideship but rejected, again applying in next notification)	
Research Scholars registered with details	No	/5
Details of Patents Applied for (If any) One application 5 marks	---	/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Organized 5 days FDP on Advances & Research in Mechanical Eng.	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	---	/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	Since classes were conducted online used PPTS & showed videos to explain the concepts to students	5/5
Details of Project Proposal submitted during the current year. (At least one)	---	/5
Details of Project Funds Received.	Rs.8000/- KSCST 44th series	5/5
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 etc.	1.Head of Department 2) Disciplinary committee coordinator 3) Admission in charge	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	1. ISTE (LM 40488) 2. IEI (M – 1573610)	5/5
COVID TASK FORCE Responsibilities.	Covid task force main in charge during vaccination & during exams thermal checking	5/5

(If any) Please mention your role.		
Contribution towards Branding, Admissions, etc	1.Sent faculty in batches to different PUC colleges to bring their database. 2. Counselling the parents during admissions to different branches	10/10
TOTAL		140.8/190

Date: 29/9/21

Signature of faculty

Comments from the HOD:

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO

List of Subjects Taught

1. Elements of Mechanical Engineering
2. Mechanics of Materials
3. Kinematics of Machines
4. Design of Machine Elements-I
5. Design of Machine Elements-II
6. Theory of Elasticity
7. Theory of Plasticity
8. Computer Aided Machine Drawing
9. Computer Integrated Manufacturing
10. Design Laboratory
11. CIM Laboratory
12. Material Testing Laboratory
13. Foundry & Forging Laboratory

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

15, Mallasandra, off. Kanakapura Road, Bengaluru 560109

Certificate of Participation

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.**

Chief Coordinator	Head of the Department	Principal
Dr. Jyothi .P.N	Dr. Balaji .B	Dr. K. Rama Narasimha

Rajya Vokkaligara Sanga ®

Bangalore Institute of Technology

(Affiliated to VTU Belagavi, Approved by AICTE)
K.R. Road, V.V. Pura, Bengaluru -560 004

BIT/ME/AFTMME 2020/214

Certificate of Participation

This is to Certify that ***Dr. Balaji B, KSSEM, 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.

Dr. Chandrashekar A. **Convenor**	**Dr. Manjunath M.C.** **Convenor**	**Dr. T.V. Sreerama Reddy** **Prof. & Head**	**Dr. Aswath M.U.** **Principal, BIT**

ACS COLLEGE OF ENGINEERING
#207, Kambipura, Mysore Road, Bangalore – 560 074.
Affilliated 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 **KSSEM, 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.VinothKumar
Coordinator

Dr. T.Senthilkumaran
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

9	44S_BE_0394	EFFECT OF AL2O3 NANOPARTICLES ON PERFORMANCE AND EMISSION CHARACTERISTICS OF SINGLE CYLINDER VCR ENGINE FUELED WITH PONGAMIA PINNATA AND WASTE COOKING OIL BIO DIESEL.	K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI	Prof. MAHESH LATTE	Mr. SAGAR VEER Mr. KALAGOUDA HALAGADAGI Mr. SIDDARTHAGOUDA TIMMANAGOUDRA Mr. SHREESHAIL KOLI
10	44S_BE_4127	DEVELOPMENT OF SAFETY MECHANISM FOR LIFT AT CONSTRUCTION SITE	K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI	Prof. V H MODI	Mr. YANKANNA A RATHOD Mr. PRADEEP HONAGOUDA PATIL Mr. MUHAMADFAISAL G DHALAYAT Mr. MALAGOUDA PATIL
11	44S_BE_4134	EXPERIMENTAL ANALYSIS OF FRICTION COMPOSITE BRAKE PADS IN BRAKE SYSTEM	K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI	Prof. SANGAMESH BAI	Mr. SHIVANAND KARAGUPPI Mr. SHIVANAND MURAGANTI Mr. SAIYADWASEEM TERADAL Mr. TUGLIGOUDA POLICE PATIL
12	44S_BE_4135	AGRICULTURE EQUIPMENT TO CUTTING TURMERIC LEAVES AND REMOVING RAW TURMERIC BY USING SOLAR ENERGY	K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI	Prof. PRASAD S RAYAN	Mr. KALYANKUMAR PATTAR Mr. RAHUL NAIK Mr. SACHIN BAGALI Mr. OMKAR HALAJOLE
13	44S_BE_3697	COCONUT SKIN PEELING MACHINE	K.L.S. VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA	Prof. D V LOKARE	Mr. CHETAN MALAGHAN Mr. AMUL SHIRAGAR Mr. ANIL DEVAJI Mr. BASAVARAJ CHANNAL
14	44S_BE_2133	FABRICATION OF PORTABLE SHREDDING AND COMPOSTING DEVICE FOR KITCHEN AND GARDEN WASTE.	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	Prof. K PRASAD	Mr. ANIRUDH BHARADHWAJ K Mr. BHARATH KUMAR G Mr. GANAPATI MANJUNATH HEGDE Mr. GANESHKUMAR NARAYAN HEGDE
15	44S_BE_2134	DESIGN AND DEVELOPMENT OF ZERO LAG TURBOCHARGER TO INCREASE ENGINE EFFICIENCY AND TO REDUCE AIR POLLUTION	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	Prof. ANILKUMAR A	Mr. DARSHAN B S Mr. ASIF K Mr. ABHILASH K S Mr. PRAKASH Y
16	44S_BE_2136	AUTOMATIC DISINFECTANT SYSTEM	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	Mr. GAUTHAM S	Mr. PUNEETH GOWDA.N Mr. SOWRAV A Mr. SKANDA S Mr. SHASHKIRAN S
17	44S_BE_2206	FABRICATION AND PERFORMANCE TESTING OF PORTABLE ARCHIMEDES SCREW MICRO-HYDRO GENERATOR	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	Mr. K PRASAD	Mr. R GOKUL Mr. RAJATH N R Mr. SATWIK SHIVARAM BHAT Mr. SHASHANK L
18	44S_BE_3015	DESIGN AND FABRICATION OF ROVER BASED ON ROCKER BOGIE MECHANISM	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU	Dr. BALAJI. B	Mr. AKSHAY KUMAR P N Mr. ABHIJITH JAYARAM Mr. SANJAY GOWDA Mr. SYED TOUSIF
19	44S_BE_3018	MULTI-SOURCE MODULAR DECORTICATOR FOR MULTIPLE CROPS	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU	Dr. P N JYOTHI	Mr. BALA BABU BHARGAV Mr. GORRIPATI KARTHIK Mr. R YASWANTH Mr. T V SAI BHARGAV

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	Dr. Jyothi P N	
Present Address, Mob.No., e-mail id.	Flat No 105, Gangotri Sapthagiri Pearl Apartment, Nagappa Block, Maruthi Layout Vasanthapura-61 9663080471 Jyothi.p.n@kssem.edu.in	---
Age and Date of Birth	44 Years 27/10/1977	
Qualification	M.Tech, Ph.D.	
Designation and Department	Professor, Department of Mechanical Engineering	
Teaching Experience (After PG)	20 years	
Other Experience(If any)	Nil	
List of Subjects Taught till date (use separate sheet if necessary)	Annexture-1	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1.Metal Cutting & Forming(III Sem)-84% 2.Opertions Management(V Sem)- 85.71% 3.Metal Casting and Welding(IV Sem)-All Pass 4.Operations Research(VIII Sem)-100%	36.9 /40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Multisource decorticator for Multiple crop- 4th yr students 2. Low cost mechanically operated Floor cleaning Machine-3rd yr students	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1.---- 2.---	0/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	100	5/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	1.Metal Cutting & Forming(III Sem)-99.56 2.Opertions Management(V Sem)-90.86 3.Metal Casting and Welding(IV Sem)-97.5 4.Operations Research(VIII Sem)-96.80	4.809/5
Details of Industrial Visits		

arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)	32(Annexure -2)	--

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

Details of students mentored during current assessment year.	10	--
Details of Participation in VTU Bodies (2 Marks)	-	0/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation- no	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1) "Operations Management, Under AICTE (ATAL) organized by Goa College of Engineering" "16/8/21-20/8/21, 5 Days" 2) "Research Tools" organized by International Institute of Organized Research (I2OR),"25/6/2020-30/6/2020 -5 Days"	10/10
Financial Assistance received during current year for attending FDPs	Rs.-	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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	1. Experiment to determine the specific	

each) [Attach copies of Title Page]	heat of oils", Journal of Mechanical and Engineering, Vol. 5(45), No1 2021,pp.47-52	05/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	Importance of Hypermesh in Analysis Overview of Aerospace Technical Publication	10/10
Financial Assistance received during current year	Rs.-	--
Registered as Research Guide (Reasons for not registering)	Yes	
Research Scholars registered with details	Yes If Yes, 5 marks	5/5
Details of Patents Applied for (If any) One application 5 marks	-	0/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Organized 5 Days FDP on Advances & Research in Mechanical Engg	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	-Registered for Coursera and NPTEL courses	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	Since classes were conducted online, used NPTEL videos to explain the concepts to students	5/5
Details of Project Proposal submitted during the current year. (At least one)	Eco-Friendly Cutting fluids for Drilling Operation of Mild Steel Material-VTU_RGS -2020-21	5/5
Details of Project Funds Received.	Rs.6000- KSCST 44th series	5/5
Consultancy Revenue Generated	Rs.00	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 etc.	1) Criteria 6 Main Coordinator 2) Project Committee chief Coordinator 3) Dept. Research Coordinator	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	1. Life member of Indian Society for Technical Education(ISTE) LM38609 2. Institution of Engineers (INDIA)-M-1511852	5/5
COVID TASK FORCE	Yes, to monitor the process of students	

Responsibilities. (If any) Please mention your role.	Temp check and see that students maintain social distance before entering the exam hall	5/5
Contribution towards Branding, Admissions, etc	Tele calling Parents	10/10
TOTAL		157.7/190

20/9/21

Date:

Signature of faculty

Comments from the HOD:

Very Dedicated to department, little Stingent towards ~~about~~ Students but desciplined.

Signature of the HOD

Comments of the Principal after the discussion:

Dr. Rama

Signature of the Principal

CEO

Annexture-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	100
		Foundry Technology (Exit Scheme)	--
	Aug-Dec	EME-G/S 1st Sem	85
		Project Management (V Sem)	100
2020	Feb-June	EME-C/s(CSE)	No Exams
		Metal Forming(6th Sem)	
	Aug-Dec	Metal Cutting and Forming-3rd Sem	84
		Operations Management-5th Sem	85.71
2021	Feb-June	Metal Casting and Welding-4th Sem	No exam
		Operations Research-8th Sem	100
	Aug-Dec	Metal Cutting and Forming-3rd Sem	-
		Operations Management-5th Sem	-

Annexure -2

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

Sl 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	31st July 2015
16	Training on Pupil pod software	KSSEM	1st August 2015
17	Outcome Based Education and Blooms Taxonomy"	KSSEM	4th & 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	11th 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	23rd & 24thNovember 2018
23	Attended "New Approach To The Revised Assessment & Accreditation Of NAAC-2019"	Global Academy of Technology. Bangalore	4th 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	24th to 26th July 2019

26	Two days National Seminar on Additive and Advanced Manufacturing	BIT, Bangalore	29th & 30th 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 Hypermesh 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

Rajya Vokkaligara Sanga ®

Bangalore Institute of Technology

(Affiliated to VTU Belagavi, Approved by AICTE)
K.R. Road, V.V. Pura, Bengaluru -560 004

BIT/ME/AFTMME 2020/142

Certificate of Participation

This is to Certify that *Dr. P. N. Jyothi, K S School of Engineering and Management* 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.

Dr. Chandrashekar A.	Dr. Manjunath M.C.	Dr. T.V. Sreerama Reddy	Dr. Aswath M.U.
Convenor	Convenor	Prof. & Head	Principal, BIT

No: ATAL/2021/1628228425

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

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

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that **P N Jyothi, Professor** of **K S School of Engineering and Management** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary** FDP on " **Operations Management**" from **16/08/2021** to **20/08/2021** at **Goa College of Engineering**.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

Jyothy Institute of Technology

ciirc®

(APPROVED by AICTE & AFFILIATED TO VTU) TATAGUNI, OFF KANAKAPURA ROAD, BENGALURU - 560082

National Institutional Ranking Framework nirf

India Rankings 2020: Engineering (Rank-band: 251-300)

CERTIFICATE

This is to certify that **Mrs. P N Jyothi** has attended Online **Faculty Development Programme** on **"Advances in Mechanical Engineering"** organised by Department of Mechanical Engineering held from 11th July 2020 to 15th July 2020.

Vice Principal & Head,
Dept. of Mechanical Engineering
Jyothy Institute of Technology
Thathaguni, Bengaluru - 560 082

Principal
Jyothy Institute of Technology
Thathaguni, Kanakapura Road
Bengaluru-560 082

KAMMAVARI SANGHAM (R) - 1952

K S INSTITUTE OF TECHNOLOGY

(NAAC Accredited, Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru – 560109
Tel:080-28435723 Email: Principal@ksit.edu.in Web: www.ksit.edu.in

KAMMAVARI SANGHAM 60 Years 1952 - 2012

Certificate of Participation

KV1BCK-CE000051

This is to certify that **Dr.P N Jyothi** of **K S School of Engineering and Management** 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

KSSEM
K.S. School of Engineering and Management

BridgeNOW Academy

Certificate of Participation

This is to certify that Dr/Mr **Dr. Jyothi P N** working as **Professor** 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**.

Head of the Department

Principal

Researcher
Ph.D Professors & Scholars

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	20-Sep-2021	No	No

< Back to Professor Profile

Save Clear

Total: **1**

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

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

~~KSIT~~/KSSEM

Field	Data	SCORE
Name	ABHISHEK M R	
*Present Address, Mob.No., e-mail id.	No. 4, 3rd Floor, Sai sumukh, 1st D main Road, Vivekanandanagar, Kathriguppe, Bengaluru – 560085 MOB: +91-9886045566 E-mail: abhishekmr@kssem.edu.in	---
Age and Date of Birth	36 tears / 06/03/1985	
Qualification	M. Tech (Machine Design), Pursuing Ph. D	
Designation and Department	Associate Professor/Mechanical Engineering	
Teaching Experience (After PG)	12 years	
Other Experience(If any)	03 years (teaching after B E)	
List of Subjects Taught till date (use separate sheet if necessary)	*List enclosed*	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. Mechanics of Materials/18ME32 2. Engineering Graphics/18EGDL15 3. Kinematics of Machines/18ME44 4. Engineering Graphics/18EGDL25	35.5/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Experimental Investigations on Vibrational Properties on Hybrid Composites	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	Not applicable	0/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	100	5/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	((98+86+99+97)/4)(5/100)	4.75/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since	01	--

joining service (Attach Separate List)		

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

Details of students mentored during current assessment year.	12	--
Details of Participation in VTU Bodies (2 Marks)	nil	0/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	nil	0/10
Financial Assistance received during current year for attending FDPs	nil	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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)	8/10
Research Publications: (5 marks each) [Attach copies of Title Page]	1. An investigation on dynamic mechanical properties of hybrid composite materials 2. Tensile, Impact & Dynamic Properties of Jute/E-Glass Composite by Adding Shear Thickening Fluid	10/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	1) Research Developments in Composite Materials	5/10
Financial Assistance received	nil	--

during current year		
Registered as Research Guide (Reasons for not registering)	Yes / No	No
Research Scholars registered with details	Yes / No If Yes, 5 marks	0/5
Details of Patents Applied for (If any) One application 5 marks	nil	0/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	1. Technothsav, in collaboration with KSIT – Organized on 19th December 2020	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	nil	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	nil	0/5
Details of Project Proposal submitted during the current year. (At least one)	nil	0/5
Details of Project Funds Received.	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 etc.	1) NAAC (2nd Criteria) 2) IQAC Department coordinator 3) News letter coordinator 4) Faculty Feedback and MS Teams Coordinator	10
Details of Live Membership for Professional Bodies (IEEE CSI SAE ISTE .....)	MISTE	5/5
COVID TASK FORCE Responsibilities.	Ensure Social Distancing in students	5/5
Contribution towards Branding, Admissions, etc	Tele calling	10/10
TOTAL		114.25/190

Date: 13/09/2021

Signature of faculty

Comments from the HOD:

Highly knowledgeable, Contributed very much in NAAC Criteria 2, Disciplined & he involves voluntorely for Departmental works.

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

Materials Today: Proceedings xxx (xxxx) xxx

Contents lists available at ScienceDirect

Materials Today: Proceedings

journal homepage: www.elsevier.com/locate/matpr

An investigation on dynamic mechanical properties of hybrid composite materials

M.R. Abhishek [a,*], P.M. Suresh [b], N. Ranganath [c], D.P. Girish [d]

[a] Research Scholar, VTU / T Research Centre, Bangalore, India
[b] A C S College of Engineering, Bangalore, India
[c] K S Institute of Technology, Bangalore, India
[d] Government Engineering College, Ramanagara, Karnataka, India

ARTICLE INFO

Article history:
Received 10 February 2020
Accepted 18 May 2021
Available online xxxx

Keywords:
Hybrid composite
Jute
E-glass
FFT
Natural frequency

ABSTRACT

In recent times, usage of Composite materials is one of the methods to achieve cost effectiveness of a product. In the current research it is intended to characterize a composite material for the usage in bumper reinforcement – automotive application. Materials chosen for the investigation are a natural fiber (JUTE), synthetic fiber (E - GLASS) and resin (EPOXY). Composites are casted by conventional hand lay-up technique cured at room temperature. Further tailored to required dimensions and finally tested for dynamic mechanical properties such as natural frequency by Fast Fourier Transform analyzer (FFT). It can be concluded that, as the percentage of jute increases and E-glass decreases for lower percentage of Epoxy the stiffness of composite decreases resulting in increased vibration levels. The tests are repeated for different composition of resin which also shows similar trend and change in the value of natural frequencies.

Selection and Peer-review under responsibility of the scientific committee of the First International Conference on Advanced Trends in Mechanical and Aerospace Engineering.

1. Introduction

Combination of one or more fiber in a composite forms a hybrid composite. Composite tailored by using two or more fiber accommodates better mechanical properties. Usage of natural fiber in the composite along with synthetic fiber is one such application. Also the presence of natural fiber in the composite increases the biodegradability [1]. In the contemporaneous scantilization composite comprising of jute, E – glass and epoxy resin are studied for dynamic mechanical properties by using FFT analyzer.

2. Material & testing

Hand layup technique is adopted for fabrication as shown in Fig. 1. Composites are fabricated for two different weight ratios of epoxy resin viz. 60 wt% (A) and 70 wt% (B). Also weight ratio of jute in each of the epoxy composition is varied from 5 wt% to 20 wt% in four steps and for E-glass it varies from 10 wt% to 35 wt%. Compositions of each composite are as shown in Table 1 and Table 2.

Composite laminates are casted for the dimension of 300*300 mm plates with thickness less than 5 mm. Then a grid system is formed on the composite to form nodes, later which will act as point for applying excitation.

This prepared composites are tested for dynamic properties to evaluate natural frequencies by FFT analyzer [2–6] which includes an accelerometer, impact hammer, Data acquisition unit and specimen as shown in Fig. 2. Tests are conducted by holding composite laminates as cantilever beam and fixing accelerometer on the specimen with the help of glue at a fixed point. Excitations are provided with impact hammer at each nodal point on the grid system and test results were recorded and is as shown in Figs. 3 and 4.

3. Result and discussion

The results of the various composites tested for natural frequencies are tabulated as shown in Table 3 for composite A and Table 4 for composite B. It is evident from Tables 3 and 4 that natural frequencies decrease from composition A1 to A4 and B1 to B4 for all the modes.

* Corresponding author.
E-mail address: abhishekmr@kstmail.in (M.R. Abhishek).

https://doi.org/10.1016/j.matpr.2021.05.400

Selection and Peer-review under responsibility of the scientific committee of the First International Conference on Advanced Trends in Mechanical and Aerospace Engineering.

Please cite this article as: M.R. Abhishek, P.M. Suresh, N. Ranganath et al., An investigation on dynamic mechanical properties of hybrid composite materials, Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2021.05.400

Tensile, Impact & Dynamic Properties of Jute/E-Glass Composite by Adding Shear Thickening Fluid

Abhishek M R, Dr Suresh P M

Department of Mechanical Engineering, K S I T Research Centre, Visvesvaraya Technological University, Bengaluru

✉ *abhimalavanti@gmail.com*

ABSTRACT

Composites are known for higher specific strength, ease of manufacturing and economical, promoting utilization of composites in many industries as structural components. Hybridization of composite drives researchers to try different combination to enhance the properties of materials and make it more efficient. In the current investigation an attempt was made to fabricate composite comprising of E – Glass/Jute as fiber with Epoxy as polymer by varying fiber fraction (Eight compositions viz. D1 – D4 & DS1 – DS4) using Hand layup technique. Mechanical properties such as Youngs Modulus, Ultimate Tensile Strength (UTS), % Elongation, Hardness, Impact Energy and Natural frequencies are evaluated for the composite developed. Also the effects of Shear Thickening Fluid (STF) composed of cornstarch in water are determined. Results indicate that Young modulus, UTS and % Elongation, Hardness, impact strength and Natural frequencies of composite decreased with increase in Jute Wt% in composite. Similar trend is observed for composite with STF, but an increment in Youngs modulus and impact strength, decrement in UTS, % Elongation. Also Hardness and Natural frequencies of composites with STF is lesser compared to composite without STF.

Keywords: E-glass; Epoxy; Hybrid composite; Jute; Natural frequency; Shear thickening fluid.

INTRODUCTION

Materials are one of the significant parameter to be considered in the manufacturing, based on which the cost of a product will be decided. The type of material used plays a vital role in the field of automotive and aerospace sector. The recent trend reveals that most of the parts which are made of conventional monolithic materials such as Steel, Aluminium etc. are being replaced by composite materials. Binding two or more materials to form newer materials of required properties are known as composite materials. Varieties of composites are available based on the nature of reinforcement and matrix material, but composites made up of fiber and resin are simple to manufacture, cost effective, lighter in weight, higher strength to weight ratio, environmental friendly and easily available in market because of which it has got higher thrust to be used in structural application. India has a greater potential to use composites made of natural fibers viz. Jute, Hemp, Sisal, banana fibers as reinforcement in composite which are bio-degradable in nature [1]–[8].

Many researchers have focused on absorption of impact forces during collision in automobiles. They adopted various sensors with artificial intelligence and machine learning methods to determine the accident in automobiles before it happen. By sensing the same STF are pushed to the projected areas to absorb impact energy [9]–[12]. By this method a significant amount of impact can be absorbed from transferring it to the body or vehicle, providing safety to the passenger.

From the above discussion, it can be concluded that composite comprising of only natural fibers as reinforcement are not fulfilling the strength requirements to be used in automotive application. On the other hand, researchers are trying for alternative methods to improve impact strength in structures.

This in the current investigation a combination of natural fiber viz. Jute and synthetic fiber viz. E – Glass and epoxy as polymer resin composite are developed and tested for mechanical properties. Also for the above said composite effect of addition of STF are obtained. STF is a Visco - elastic material made of cornstarch and water, which is added as fourth element in composite to improve impact strength in it [13].

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	HARSHA.J	
Present Address, Mob. No., e-mail id.	Flat No 302, Srinidhi Residency #10/30,6th B Cross, Balajinagar BSK III Stage Bangalore-560085 Mob: 9632344550 Mail: harsha.j@kssem.edu.in harshajade@gmail.com	---
Age and Date of Birth	40 Years ,04/05/1981	
Qualification	BE, M Tech, Ph.D. (Pursuing)	
Designation and Department	Assistant Professor, Mechanical Engineering	
Teaching Experience (After PG)	10 Years 02 Months	
Other Experience(If any)	05 years Industry 02 Years Teaching (Part Time)	
List of Subjects Taught till date (use separate sheet if necessary)	Details Attached	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1.Fluid Power System – 100 % 2.Fluid Power Engineering- 97 % 3.CIMA Lab- 100 % 4.Additive Manufacturing -100 % 5.Total Quality Management (Online)-100 % 6.Foundry & Forging Lab (Online) – 100 %	39.7/40
Details of UG Projects Guided (5 marks/ project guided) Online	1.Modification and Fabrication of Automatic Egg Incubator 2. Design and Fabrication of Pneumatic Rolling Shutter Lifting Mechanism	10/10

Details of PG Projects Guided (5 marks/ project guided) Only for MBA	NA	0/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	50 Classes for Core Subject, 40 Classes for Elective Subject & 12 Sessions for a Lab as per the schedule and completed the syllabus within the allotted schedule	5/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	Additive Manufacturing-96 % Fluid Power Engineering-86 % Fluid Power System- 89 %	4.5/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)	Details Attached	--

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

Details of students mentored during current assessment year.	Nil	--
Details of Participation in VTU Bodies (2 Marks)	External Deputy Chief Superintendent	2/2
Details on Examination related Activity (2marks each)	1. Practical Exams- yes 2. Conduction of Theory exams- nil 3. Paper Setting-yes 4. Evaluation-Yes	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1.One Week online Faculty Development programme Recent Advances & Trends in Mechanical Engineering & Material Science held at KSSEM, Bangalore 2.Importance of Hypermesh in Analysis at KSIT, Bangalore	10/10
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. [Attach proof for each stage]	1. Awarded (2 marks) 2. Thesis Submitted and awaiting	

(This can be claimed only once during a life time after the PhD is awarded) [Attach proof for every claim] Ph.D. Completed – 10 marks.	reports (1 mark) 3. Thesis Preparation (2 Mark) 4. Experimentation/Data Collection in completed (1 mark) - Yes 5. Comprehensive viva voce completed (1 mark)-Yes 6. Appeared for Course work exams (1 mark)-Yes 7. Applied for registration formalities (1 mark)-Yes 8. Identified Guide/Research Centre and preparing research Proposal (1mark.)-Yes 9. Not thought of pursuing Ph.D. (zero)	07/10
Research Publications: (5 marks each)	Nil	00/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	02	10/10
Financial Assistance received during current year	Nil	--
Registered as Research Guide (Reasons for not registering)	NA	
Research Scholars registered with details	NA	0/5
Details of Patents Applied for (If any) One application 5 marks		0/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Yes 1.Webinar on Career Guidance by Alumni 2. Recent Advances and Trends in Mechanical Engineering and Material Science	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	Nil	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	For Every subject taught NPTEL, YouTube and other online sites are used to convey the topics to the students.PPT with video links are attached for reference.	5/5
Details of Project Proposal submitted during the current year. (At least one)	Nil	0/5
Details of Project Funds	Nil	0/5

Received.		
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 etc.	1)News Letter Head (College) 2)Cultural Committee Head (College) 3) Website Co-Ordinator (Department)	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	Nil	0/5
COVID TASK FORCE Responsibilities. (If any) Please mention your role.	Vaccination Drive Banner Design and Printing Task	5/5
Contribution towards Branding, Admissions, etc	Admission Committee Member News Letter Committee Head	10/10
TOTAL		129.2/190

Signature of faculty

Date: 24/09/2021

Comments from the HOD:

He is the Cultural Co-ordinator, he will organises all events very well. Little lazy towards Department but if we order then he will execute on time.

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	THEORY	100
43	CIM LAB	LAB	100
44	TOTAL QUALITY MANAGEMNT(ONLINE)	THEORY	100
45	METAL CUTTING & FORMNING(ONLINE)	THEORY	100
46	MACHINE SHOP (ONLINE)	LAB	100
47	FLUID POWER SYSTEM	THEORY	100
48	FLUID POWER ENGINEERING	THEORY	97
49	CIMA LAB	LAB	100
50	ADDITIVE MANUFACTURING	THEORY	100
51	TOTAL QUALITY MANAGEMENT(ONLINE)	THEORY	100
52	FOUNDRY & FORGING LAB(ONLINE)	LAB	100
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

KAMMAVARI SANGHAM (R) - 1952

K S INSTITUTE OF TECHNOLOGY

(NAAC Accredited, Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru – 560109
Tel:080-28435723 Email: Principal@ksit.edu.in Web: www.ksit.edu.in

KAMMAVARI SANGHAM 60 Years 1952 - 2012

Certificate of Participation

KV1BCK-CE000047

This is to certify that **Mr.Harsha J** 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	**Prof. Umashankar M**	**Dr. T V Govindaraju**
Workshop Coordinator	HOD, ME	Principal, KSIT

KSSEM

BridgeNOW Academy

Certificate of Participation

This is to certify that Dr/Mr **Mr. Harsha J** working as **Asst. Professor** 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.

Head of the Department

Principal

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

15, Mallasandra, off. Kanakapura Road, Bengaluru 560109

Certificate of Participation

This is to certify that

Mr.HARSHA.J

of **K S School of Engineering & 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.**

Chief Coordinator
Dr. Jyothi .P.N

Head of the Department
Dr. Balaji .B

Principal
Dr. K. Rama Narasimha

Kammavari 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

KAMMAVARI SANGHAM 60 Years 1952 - 2012

Certificate of Participation

This is to certify that

Mr./Ms./Dr./Prof. Harsha J of

K S School of Engineering & Management has attended One Week online Faculty Development 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	Prof. UMASHANKAR. M	Dr. K. V. A. Balaji
Assoc. Prof, ME	HOD, ME	Principal / CEO

ATME

College of Engineering

9001:2015

CERTIFICATE

This is to certify that **Harsha.J** from **K S School of Engineering & Management** has successfully completed the online quiz on **"Fluid Power Systems"** organized by Department of Mechanical Engineering, ATME College of Engineering, Mysuru, **from 3rd August to 5th August 2020.**

Dr. Rathnakar G
HOD, Department of ME
ATMECE

Dr. L Basavaraj
Principal
ATMECE

ATME

College of Engineering

9001:2015

CERTIFICATE

This is to certify that **Harsha.J** from **K S School of Engineering & Management** has successfully completed the online quiz on **"Additive Manufacturing "** organized by Department of Mechanical Engineering, ATME College of Engineering, Mysuru, **from 29th July to 31st July 2020**

Dr. Rathnakar G
HOD, Department of ME
ATMECE

Dr. L Basavaraj
Principal
ATMECE

BHARATHI EDUCATION TRUST (R)

G MADEGOWDA INSTITUTE OF TECHNOLOGY

BHARATHINAGARA (K M DODDI), MANDYA-571422

DEPARTMENT OF MECHANICAL ENGINEERING

Issued on: 7-6-2020

Certificate

to

Harsha J

In recognition of successful completion of E-QUIZ on "**RESEARCH METHODOLOGY**" organized by Department of Mechanical Engineering, **G Madegowda Institute of Technology**, Bharathinagara, Mandya.

Dr. Chandan B R
Professor & Head, GMIT

Dr. R V Praveena Gowda
Principal, GMIT

Sri Madhu G Madegowda
President, BET

Vidyavardhaka Sangha ®, Mysuru

Vidyavardhaka College of Engineering

(Autonomous Institute Affiliated to VTU and Approved by AICTE)
Accredited by NAAC with "A" Grade
P.B. No. 206, Gokulam, 3rd Stage, Mysuru - 570 002, Karnataka, India

VVCE

ME

Department of Mechanical Engineering

Accredited by NBA

Certificate of Participation

This is to certify that ***Mr.Harsha.J, Assistant Professor*** of ***K S School of Engineering & Management*** has successfully completed National level e-quiz on "**Fundamentals of Mechanical Engineering**" on ***7/9/2020*** organized by Department of Mechanical Engineering, VVCE, Mysuru.

Dr. Khalid Imran	Prof. Rajesh Kumbara S K	Dr. G V Naveen Prakash	Dr. B Sadashive Gowda
Coordinator	Coordinator	HOD, ME	Principal

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	AKASHDEEP B N	
Present Address, Mob.No., e-mail id.	#113/4, OPP TO MANIPAL COUNTY, SINGASANDRA, BANGALORE - 68	---
Age and Date of Birth	36, 14/05/1984	
Qualification	BE, MTech, (PhD)	
Designation and Department	Assistant Professor/Mechanical	
Teaching Experience (After PG)	12	
Other Experience(If any)		
List of Subjects Taught till date (use separate sheet if necessary)		
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. Tribology – 100% 2.Compute Aided Engg Drawing – 100% 3.Experimental stress Analysis – 100% 4.Compute Aided Engg Drawing – 100%	40/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Synthesis and mechanical behaviour of AA5456 aluminium alloy as a matrix material nano-SiC as a reinforcement material by stir casting method	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1. 2.	/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)		05/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	95	05/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)		--

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

Details of students mentored during current assessment year.	12	--
Details of Participation in VTU Bodies (2 Marks)	DCS Duty	02/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	08/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1) AI &ML : Basics and Principles 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] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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)	07/10
Research Publications: (5 marks each) [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]		/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	Yes / No	NO

Research Scholars registered with details	Yes / No If Yes, 5 marks	/5
Details of Patents Applied for (If any) One application 5 marks		/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Supported for the FDP on "Advances in Mechanical Engineering"	05/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others		/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	Used NPTEL Videos, YouTube Animation videos for Teaching	05/5
Details of Project Proposal submitted during the current year. (At least one)		/5
Details of Project Funds Received.	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 etc.	1) Time Table Coordinator. 2) Proctor. 3) Class Teacher (Final Year). 4) NAAC Coordinator of Criteria 1. 5) Lab Incharge for Mechanical Measurement and Metrology lab.	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	1. The Institution of Engineers (India) 2. The Indian Society For Technical Education.	05/5
COVID TASK FORCE Responsibilities. (If any) Please mention your role.	1. Maintaining Social Distance in the Classes 2. Creating awareness to wear mask	05/5
Contribution towards Branding, Admissions, etc	Tele calling	10/10
TOTAL		127/190

Date: 14/09/21

Signature of faculty

Comments from HOD:-

Highly talented & Desciplined faculty, but too lazy in his works, little casual in his involvements.

List of Subjects Handled Since Joining the Service

Sl. No.	Subject	Year	Percentage
1.	Computer aided Engineering Drawing	2013 EVEN	100
2.	Metrology &Measurements	2013 EVEN	98
3.	Computer aided Engineering Drawing	2013 ODD	100
4.	Dynamics of Machines	2013 ODD	68
5.	Elements of Mechanical Engg.	2014 EVEN	93
6.	Theory of Elasticity	2014 EVEN	100
7.	Computer aided Engineering Drawing	2014 ODD	94
8.	Theory of Plasticity	2014 ODD	100
9.	Computer aided Engineering Drawing	2015 EVEN	100
10.	Tribology	2015 EVEN	100
11.	Computer aided Engineering Drawing	2015 ODD	90
12.	Theory of Plasticity	2015 ODD	100
13.	Advance Tribological Design	2016 EVEN	100
14.	Tribology	2016 EVEN	100
15.	Computer aided Engineering Drawing	2016 ODD	92
16.	Experimental Stress Analysis	2016 ODD	100
17.	Computer aided Engineering Drawing	2017 EVEN	100
18.	Tribology	2017 EVEN	100
19.	Computer aided Machine Drawing	2017 ODD	94
20.	Computer aided Engineering Drawing	2017 ODD	93
21.	Tribology	2018 EVEN	100
22.	Computer aided Engineering Drawing	2018 EVEN	97
23.	Tribology	2018 ODD	100
24.	Computer aided Engineering Drawing	2018 ODD	100
25.	Computer aided Engineering Drawing	2019 EVEN	100
26.	Experimental Stress Analysis	2019 EVEN	98

	Tribology	2019 ODD	100
28.	Computer aided Engineering Drawing	2019 ODD	100
29.	Computer aided Engineering Drawing	2020 EVEN	100
30.	Experimental Stress Analysis	2020 EVEN	100
31.	Tribology	2020 ODD	100
32.	Computer aided Engineering Drawing	2020 ODD	100
33.	Computer aided Engineering Drawing	2021 EVEN	100
34.	Experimental Stress Analysis	2021 EVEN	100

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	Santosh Kumar K J	
Present Address, Mob.No., e-mail id.	#40,41, 9th Cross, Vijayabank Colony, Basavanapura Main Road, K R Puram, Bangalore 560036 7829659656 Santoshkumar.k.j@kssem.edu.in	---
Age and Date of Birth	03/06/1985, 36 Years	
Qualification	M.tech, (Ph.D)	
Designation and Department	Assistant Professor	
Teaching Experience (After PG)	9.6 Years	
Other Experience(If any)	No	
List of Subjects Taught till date (use separate sheet if necessary)	PTO	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. Dynamics of Machines 2. Material Science 3. Finite Element Methods (Online) 4. Mechanical Measurements & Metrology (Online)	36.4/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Design and Fabrication of 3D Printer 2. Study on Mechanical Behavior of Sic And Al2o3 Nano Polymer Composites	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1. 2.	/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	100	5/5
Student Feedback for Online classes. (Av.Percentage x 5 marks)	95*5	4.8/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)		--

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

Details of students mentored during current assessment year.	**10**	**--**
Details of Participation in VTU Bodies (2 Marks)	External DCS	**2/2**
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Evaluation	**6/8**
List of FDPs attended during the Assessment year (5 marks each) **(Attach Certificate copies)**	1) AI &ML : Basics and Principles 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]** **(This can be claimed only once during a life time after the PhD is awarded)** **[Attach proof 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) **[Attach copies of Title Page]**	1. 2.	**/10**
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	1. Recent trends in Advanced Composites and Smart Materials and Structure 2. Smart Materials: A Brief introduction and its Future Scope	**10/10**
Financial Assistance received during current year	Rs.	**--**
Registered as Research Guide (Reasons for not registering)	Yes / No	
Research Scholars registered with details	Yes / No If Yes, 5 marks	**/5**
Details of Patents Applied for		**/5**

(If any) One application 5 marks		
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Supported for the FDP on "Advances in Mechanical Engineering"	**5/5**
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others		**/5**
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	Used NPTEL Videos, YouTube Animation videos for Teaching	**5/5**
Details of Project Proposal submitted during the current year. (At least one)		**/5**
Details of Project Funds Received.	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 etc.	1) Placement Coordinator 2) Class Teacher for 3rd year 3) NAAC 5 Department coordinator 4) Lab Incharge 5) Proctor for 2nd year Students	**10/10**
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	Member of ISTE, LM94768 Member of IAENG, Member No: 138548	**5/5**
COVID TASK FORCE Responsibilities. (If any) Please mention your role.	I am not in the COVID TASK FORCE, but as class teacher during offline classes I took responsibilities such as, 1. Maintaining Social Distance in the Classes 2. Creating awareness to wear mask	**5/5**
Contribution towards Branding, Admissions, etc	1. Tele Calling	**10/10**
TOTAL		**131.2/190**

Date: 24/9/2021

Signature of faculty

Comments from the HOD:

Excellent faculty, he will organised all his works very well, He will co-ordinate with Placement offices regarding Placements & very usefull faculty to department.

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO

Name of the Faculty: Santosh Kumar K J
Designation: Asst. Professor
Deaprtment: Mechanical Engineering

Number of FDPs attended since joining service

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

Name of the Faculty: Santosh Kumar K J
Designation: Asst. Professor
Deaprtment: Mechanical Engineering

List of Subjects Taught

Year	Months	Subjects Taught
2013-14	ODD	Manufacturing Process - 1
		Experimental Techniques
2013-14	EVEN	Kinematics of Machines
		Elements of Mechanical Engineering
2014-15	ODD	Dynamics of Machines
		Fracture Mechanics
2014-15	EVEN	Kinematics of Machines
		Theory of Elasticity
2015-16	ODD	Dynamics of Machines
		Elements of Mechanical Engineering
2015-16	EVEN	Kinematics of Machines
		Mechanics of Composite Materials
2016-17	ODD	Dynamics of Machines
		Elements of Mechanical Engineering
2016-17	EVEN	Kinematics of Machines (A&B Section)
2017-18	ODD	Dynamics of Machines (A&B Section)
2017-18	EVEN	Mechanical Measurements and Metrology
		Elements of Mechanical Engineering
2018-19	ODD	Dynamics of Machines (A&B Section)
2018-19	EVEN	Finite Element Analysis
2019-20	ODD	Dynamics of Machinery
		Material Science
2019-20	EVEN	Finite Element Analysis
		Mechanical Measurements and Metrology
2020-21	ODD	Dynamics of Machinery
		Material Science
2020-21	EVEN	Finite Element Method
		Mechanical Measurements and Metrology

Brindavan College of Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

Approved by AICTE New Delhi, Recognized by Government, Affiliated to VTU, Belgavi
Accredited at the 'A' level by NAAC
Dwarka nagar, Bagaluru Main Road, Yelahanka, Bengaluru-560063
Phone: +91-80-28478423/28478388 Fax 080 28478766 www.brindavancollege.com

Certificate of Participation

This is to certify that Dr/ Mr/ Ms/ Mrs Santosh Kumar K J of K S School of Engineering and Management, Bangalore for active participation in Webinar "RECENT TRENDS IN ADVANCED COMPOSITES AND SMART MATERIALS & STRUCTURES", conducted by Department of Mechanical Engineering dated on 11th JUNE 2020 at Brindavan College of Engineering, Bengaluru, Karnataka

Anil Kumar B N Coordinator	Dr.TILAK S R Coordinator	Dr.NayeemAhmed M HOD, Dept of Mech	Dr.P Prabhakara Principal, BrCE

|| Jai Sri Gurudev ||

Sri Adichunchanagiri Shikshana Trust ®

SJC INSTITUTE OF TECHNOLOGY

P.B.No.20, B.B.Road, Chickballapur-562101

(Affliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

NBA (CSE, ECE & ME) & NAAC Accredited and QS 1-Guage (Gold Rating)

AICTE Sponsored

One Week (Offline Mode) Short Term Training Programme (STTP) On

Artificial Intelligence and Machine Learning : Basics and Principles

Certificate

This is to Certify that Prof. / Dr. Santosh Kumar K.J KSSEM, Bengaluru

attended Six day **STTP** on " Artificial Intelligence and Machine Learning " organized by the

Department of Mechanical Engineering on 22nd - 27th March 2021

Dr. Veeresh Chandra M S
Program Co-ordinator

Dr. Ranganatha R
HOD, MED

Dr. G.T Raju
Principal, SJCIT

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

CERTIFICATE OF PARTICIPATION

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	Dr. Tilak S R	Mr. Harisha P	Dr. Sumod Deniel	Dr. Rajashekar Patil
Coordinator	Coordinator	Coordinator	HOD, Dept of Mech	Vice Principal, Dean R&D

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	**Vinod A**	
Present Address, Mob.No., e-mail id.	#99, Eshwara Layout, J P Nagar 7th 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 2 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)	Please find Annexure - A	
***Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.**	1. Turbomachines – 68.9 % (Blended) 2. EME – 56.5% (Blended) 3. Non-Conventional Energy Sources – (Online) 4. Heat Transfer (Online)	**32.4/40**
Details of UG Projects Guided (5 marks/ project guided) Online	1. Design and fabrication of Plastic extruder machine 2. Design and fabrication of portable mini hacksaw machine	**10/10**
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	Nil	**0/10**
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	1. Heat Transfer - 50/50 * 100 = 100% 2. NCES – 40/40 * 100 = 100%	**5/5**
Student Feedback for Online classes. (Av.Percentage x 5 marks)	Average of 3 subjects(received) – 0.945*5	**4.7/5**
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)	14	--

Details of students mentored during current assessment year.	12 students (Students belonging to 4th year)	--
Details of Participation in VTU Bodies (2 Marks)	Went to RVITM as External DCS	**2/2**
Details on Examination related Activity (2marks each)	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)**	1. Emerging trends in Automotive and Energy Systems 2. FDP on Virtual Labs for affiliated Engineering colleges under VTU Belagavi in association with NITK, Suratkal 3. Recent Advances in HVAC and Refrigeration	**10/10**
Financial Assistance received during current year for attending FDPs	Nil	--
Status of Ph.D. **[Attach proof for each stage]** **(This can be claimed only once during a life time after the PhD is awarded)** **[Attach proof for every claim]** **Ph.D. Completed – 10 marks.**	1. Thesis Preparation (2 marks) 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. Not thought of pursuing Ph.D. (zero)	**7/10**
Research Publications: (5 marks each) **[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) [Attach Certificate Copies]	1. Effective utilization of VTU subscribed e-resources Anywhere, Anytime, Any device using KSSEM Digital Library powered by Knimbus 2. Linear Algebra and its importance in Engineering, Technology & culture organized by Skill-Lync 3. Turbulence and CFD organized by Skill-Lync	**10/10**
Financial Assistance received during current year	Nil	--
Registered as Research Guide (Reasons for not registering)	**No** **(Yet to complete Ph.D.)**	-

Research Scholars registered with details	Nil	**0/5**
Details of Patents Applied for (If any) One application 5 marks	Nil	**0/5**
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	Organized FDP on "Advances and Research in Mechanical Engineering" at KSSEM from 20/7/2020 to 24/07/2020	**5/5**
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	Registered for NPTEL online course on Fluid Machines	**5/5**
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	• Shared videos of working of Biogas Plants. • Videos on Working of Boilers and importance of boiler mountings and accessories were shown	**5/5**
Details of Project Proposal submitted during the current year. (At least one)	Experimental investigation of forced convection heat transfer in fins with circular and square perforations	**5/5**
Details of Project Funds Received.	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 etc.	1. Proctor 2. NAAC coordinator for criteria 4 3. Lab Incharge for FM&M Lab 4. Industrial visit coordinator 5. Department Library coordinator	**10**
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	Nil	**0/5**
COVID TASK FORCE Responsibilities. (If any) Please mention your role.	Ensure Social distancing in the class	**5/5**
Contribution towards Branding, Admissions, etc	Telecalling	**10/10**
TOTAL		**139.1/190**

Date: 15/9/2021

Signature of faculty

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**	**--**

B. FDP's attended (Recent first)

1. Emerging trends in Automotive and Energy Systems held from 23/08/2021 to 27/08/2021 organized by Sree Vidyaniketan Engineering College, Tirupati
2. Effective utilization of VTU subscribed e-sources Anywhere, Anytime, Any device using KSSEM Digital Library Powered by Knimbus on 23/8/2021
3. Recent Advances in HVAC and Refrigeration organized by NMIT from 14/12/2020 to 19/12/2020
4. FDP on Virtual Labs for affiliated Engineering colleges under VTU Belagavi in association with NITK, Suratkal on 20/10/2020
5. Linear Algebra and its importance in Engineering, Technology & culture organized by Skill-lync on 11/12/2020
6. Turbulence and CFD conducted by Skill-Lync on 04/07/2020
7. Engineering Analysis for Thermofluids and Research Challenges using ANSYS conducted by VTU from 27/7/2020 to 31/7/2020
8. Advances and research in Mechanical Engineering Conducted by KSSEM from 20/7/2020 to 24/07/2020

9. Air Delivery systems and Indoor Environment Quality conducted by CCE-IITM from 2/3/2020 to 7/3/2020.
10. Computational fluid Dynamics @CCE-IISc. Bangalore from 13/8/2018 to 17/8/2018
11. Design Nuances in Incompressible and Compressible flow Turbomachines @ CCE-IISc from 17/10/2016 to 21/10/2016
12. Computerised Heat & Mass Transfer Laboratory at Jyothy Institute of Technology from 14/12/2015 to 18/12/2015
13. Outcome based Education & Bloom's Taxonomy at K.S.S.E.M from 4/12/2015 to 5/12/2015
14. 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.

Comments from the HOD:

Young & Dynamic faculty, He involves to all department works & very strong on digital things So much required to department.

Signature of the HOD

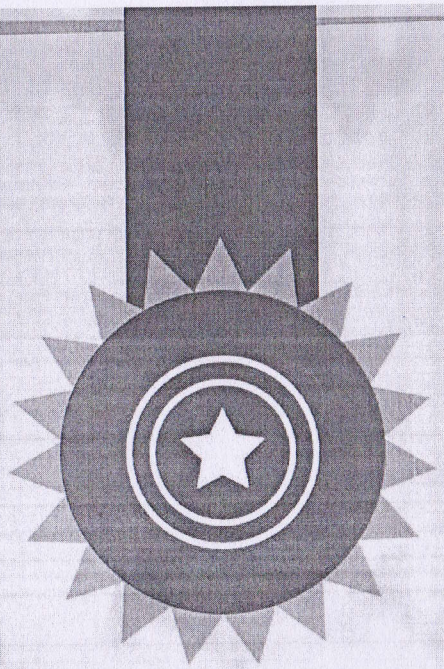
Comments of the Principal after the discussion:

Signature of the Principal

CEO

SKILL LYNC

CERTIFICATE OF PARTICIPATION



VINOD A

for attending the workshop on

Turbulence and CFD

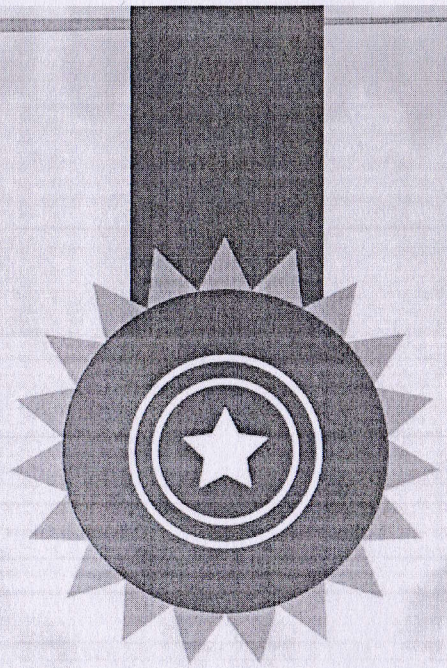
04 Sep 2020
Date:

SURYANARAYANAN P
Program Director

Certificate UID : bmfn2r9iv1

SKILL LYNC

CERTIFICATE OF PARTICIPATION



VINOD A

for attending the workshop on

Linear Algebra & its Importance in Engineering, Technology & Culture

11 Dec 2020
Date:

SURYANARAYANAN P
Program Director

Certificate UID : 3w019gnqhd

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

Virtual Labs

CERTIFICATE OF PARTICIPATION

This is to certify that

Vinod A

from K.S. SCHOOL OF ENGINEERING AND MANAGEMENT has participated in the **Faculty Development Programme on Virtual Labs for affiliated Engineering Colleges under VTU Belagavi** for Mechanical Engineering and related domains organized by Visvesvaraya Technological University Belagavi in association with National Institute of Technology Karnataka, Surathkal on 20th OCTOBER 2020

19.01.2021

Dr. A. S. Deshpande
REGISTRAR
VTU BELAGAVI

Prof. K. V. Gangadharan
PARTICIPATING INSTITUTE
COORDINATOR
VIRTUAL LABS
NITK SURATHKAL

Dr. Rashmi R. Rachh
NODAL COORDINATOR
VTU BELAGAVI

SUPPORTED BY

SME EVOLVE VTU Learning

Certificate No.: VLAB/VTU-NITK/II/141

CERTIFICATE
of Participation

NITTE EDUCATION TRUST

NITTE MEENAKSHI INSTITUTE OF TECHNOLO

DEPARTMENT OF MECHANICAL ENGINEERING

ACCREDITED BY NBA (TIER-I)

This is to certify that

Vinod A

from **K S SCHOOL OF ENGINEERING AND MANAGEMENT**

has Participated in the AICTE-ISTE Sponsored Six Days Online Refresher/Inductior Programme on **"Recent Advances in Heating, Ventilation, Air-Conditioning and Refrigeration"** from 14th to 19th December 2020, organized by Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bangalore-64, INDIA.

A+ NAAC

NBA NATIONAL BOARD of ACCREDITATION

nirf All India Ranking 128

ARIIA ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

All India Ranking 03 (Under Private Self Financed Institute)

Programme Sponsored by

AICTE All India Council for Technical Education

ISTE INDIAN SOCIETY FOR TECHNICAL EDUCATION

Dr. Kiran Aithal S
Prof, Dept. Of Mech Engg,/Coordinator
NMIT, Bengaluru

Dr. Sudheer Reddy J
Head, Dept. Of Mech Engg,
NMIT,Bengaluru

Dr. H.C. Nagaraj
Principal,
NMIT, Bengaluru

Certificate ID: S9SX6Y-CE000066

AMITY UNIVERSITY
— HARYANA —

AMIET 2020

AMIET-20/PR/114

COMPUTER SOCIETY OF INDIA ESTD. 1965

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

National Conference

On

Advancements & Modern Innovations in Engineering and Technology

September 15, 2020

This is to certify that Dr./Mr./Ms. Vinod A from K. S. School of Engineering and Management, VTU, Bengaluru has presented a research paper entitled "NUMERICAL STUDY OF FORCED CONVECTION HEAT TRANSFER THROUGH PERFORATED FINS" at the National Conference AMIET 2020 organized by Amity School of Engineering & Technology at Amity University Haryana, Gurugram, India. This paper is published in the Proceedings of AMIET-2020 with ISBN 978-93-5407-803-3.

Dr. S.N.Sridhara	Dr. Padmakali Banerjee	Dr. P.B.Sharma	Dr. Brijesh Kumar
Conference Chair	Patron	Patron	Chairman
Director, ASET	Pro-Vice Chancellor, AUH	Vice Chancellor, AUH	CSI-Gurgaon Chapter

ISBN – 978-93-5407-803-3

Numerical Study of Forced Convection Heat Transfer through Perforated Fins

Vinod A [1], Madhu D [2], S. N. Sridhara [3]
[1] K. S. School of Engineering and Management
[2] Government Engineering College, Ramanagara
[3] Amity University, Haryana, 122412, India

Abstract : In the present work, computational analysis is performed to analyze the enhancement of heat transfer for a 3D flow over a flat plate fitted with square cross-section fins without and with perforation in a rectangular domain. Flow and heat transfer characteristics were presented for Reynolds number from 13500 to 41000 and Prandtl number 0.71. The height of the fin and the inter-fin spacing ratio (Sy/D) were considered to be 75 mm and 1.944 respectively. Incompressible air is considered as the working fluid with constant properties and k-ϵ is turbulent model is used to predict the characteristics of turbulent parameters. Numerical analysis are validated with experimental studies and reasonably fair agreements were observed. Results show that the fins with two perforations have significant heat transfer enhancement

Keywords: Heat transfer enhancement, turbulence model, perforated fins.

Introduction

Extended surfaces usually termed as fins are generally and extensively used to transfer the heat from the primary source or surface to the surrounding fluid. Several types of fins such as cylindrical fin, tapered fin, annular fin, pin fins etc. are used. These fins extend from a base which may be rectangular or cylindrical in cross section. A pin fin is commonly used for exchanging the heat. These pin fins are classified as short fin and long fin based on height-to-diameter (H/d) ratio. If the H/d is ranging from 0.5 to 4, they are termed as short pin fin, and H/d exceeding 4 are termed as long pin fins.

Many investigations were carried out to know the heat transfer and pressure drop in channels with pin fins. Fatima Zohra Bakthi and Mohamed Si-Ameur [1] numerically investigated the effect of mixing of nano fluids by varying the volumetric concentration in heat sinks with perforated fins for a low Reynolds number ranging from 100 – 400. They selected Tio_2, Al_2O_3 and Cu dispersed in pure water as the base fluid. Results showed that by mixing nano particles, the pumping power and friction factor increase with increase in Re and further increases with addition of nano particles. Thamir et al. [2] investigated both experimentally and numerically the effect of perforation in a heat sink. Their results show that perforations in heat sinks gives better heat transfer rate compared to solid fins and the pumping power required will be reduced with increase in perforation. Liang Hueng et al. [3] studied the performance of tube with different shaper pin fins experimentally for turbulent flow covering a wide range of Reynolds number from 0.5×10^5 to 4.1×10^5. The heat transfer performance of tubes with different pin fin shapes such as circular, elliptical and drop-shaped were used for the study. Their results show that the drop-shaped fins show excellent improvement on the heat transfer and reduced pressure drop. Huizhu Yang et al.[4] used R113 for assessing the effect of types of fin on the performance of a plate-fin heat exchanger. They considered 3 types of fins such as plain fin, serrated fin and perforated fin. The Colburn factor j and friction factor f were found to be the critical parameters that affect the performance of heat exchanger. The criteria for assessing the performance used were j/f, $j/f^{1/2}$, $j/f^{1/3}$. In all the cases, the serrated fins appears to be the best followed with the perforated fins and plain fin. Susmitha et al. [5] experimentally and numerically investigated the performance of radial heat sink for a cylinder fitted with perforated fins under natural convection and radiation. The perforated staggered arrangement reduced the thermal resistance compared with non-perforated staggered arrangement found to be small in perforated heat sink geometry. Cheng-Hung Haung and Po-Wei Tung [6] analyzed experimentally and numerically and proposed an optimal shape of a wavy shaped heat sink. M. R Shaeri and Richard W. Bonner [7] proposed an analytical model to predict average Nusselt number of laterally perforated-finned heat sinks for laminar flows. The model agreed with experiments with an absolute error less than 5%. Thamir K et al. [8] studied the effect of square perforations under forced convection in a heat sink. They concluded that heat dissipation rates were higher for perforated fins compared to solid fins and increases further by increasing the number of perforations. This also resulted in reduced friction factor and reduced

Amity School of Engineering & Technology
Amity University Haryana, Gurugram

KSSEM

knimbus
Your eLibrary. Anywhere. Any Device.

Certificate of Participation

This is to certify

Vinod A

Participated in Knimbus Online Training on "Effective Utilization of VTU Subscribed e-Resources Anywhere, Anytime, Any Device Using KSSEM Digital Library Powered by Knimbus" held on 23rd August' 2021.

Mr. Venkatesh V
Trainer

Mr. Tarun Arora
Chief Executive Officer

SREE VIDYANIKETHAN Engineering College (Autonomous)

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet, Tirupati – 517 102

(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. VINOD A

has participated in A Five Day National Level Online Faculty Development Program on **"Emerging trends in Automotive and Energy Systems"** held from 23-08-2021 to 27-08-2021 organized by Department of Mechanical Engineering , **Sree Vidyanikethan Engineering College (Autonomous)**, Tirupati.

Dr.R.L.Krupakaran
Convener

Dr. R.Satya Meher
Professor & Head
Dept. of ME

Dr. B.M.Satish
Principal, SVEC

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	Mr. PRABHU K S	
Present Address, Mob.No., e-mail id.	# 89, SECOND FLLOR, SECOND MAIN ROAD, SAMPIGE LAYOUT WEST, PATTEGARA PALYA MAIN ROAD, PRASHANTH NAGARA, BENGALURU 560079 +91 7892 650 656 PRABHU.KS@KSSEM.EDU.IN	---
Age and Date of Birth	33 YEARS & 31 JULY 1989	
Qualification	M TECH (THERMAL POWER ENGINEERING)	
Designation and Department	ASSISTANT PROFESSOR & MECHANICAL ENGINEERING DEPARTMENT	
Teaching Experience (After PG)	6 YEARS 2 MONTHS (03/08/2018 TO TILL DATE KSSEM) (03/08/2015 TO 31/07/2018 NCET)	
Other Experience(If any)	2 YEARS (AEROSPACE COMPANY AS A DESIGN ENGINEER AIR BUS A380)	
List of Subjects Taught till date (use separate sheet if necessary)	ATTACHMENT - 1	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. Energy Engineering 100% 2. Elements of Mechanical Engineering 73% 3. Energy Engineering 100% 4. Engineering Graphics 100%	37.3/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Case Study on Vapour Compression Refrigeration With Different Refrigerants 2. Design and Analysis of Internal Combustion Engine Piston Using Catia Software	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1. 2.	--/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	(44/44)x5=5	5/5

Student Feedback for Online classes. (Av.Percentage x 5 marks)	1. Energy Engineering 89.38% 2. Elements of Mechanical Engineering 92.64% 3. Fluid Mechanics 93.67% 4. Non Conventional Energy Sources 88.75%	4.55/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)	17 ATTACHMENT - 2	--

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

Details of students mentored during current assessment year.	16 Third Year Students 08 First Year Students	--
Details of Participation in VTU Bodies (2 Marks)		--/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	06/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1. Recent Advances in Heating, Ventilation, Air-conditioning and Refrigeration 2. Engineering analysis for Thermo fluids Research Challenges Using ANSYS	10/10
Financial Assistance received during current year for attending FDPs	Rs.	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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)	01/10

Research Publications: (5 marks each) [Attach copies of Title Page]		--/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	Attachment - 3	10/10
Financial Assistance received during current year	Rs.	--
Registered as Research Guide (Reasons for not registering)	No	--
Research Scholars registered with details	No If Yes, 5 marks	--/5
Details of Patents Applied for (If any) One application 5 marks		--/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	5 Days FDP on Advances and Research in Mechanical Engineering	5/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	NPTEL online course on Thermodynamics & Laes of Thermodynamics	5/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	NPTEL video's used to demonstrate the laws of thermodynamics	5/5
Details of Project Proposal submitted during the current year. (At least one)		--/5
Details of Project Funds Received.	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 etc.	1) Internship Coordinator 2) Energy Lab Staff Incharge 3) NACC Criteria 3 Department Incharge 4) Class Teacher First Year Mechanical Engineering Students	10/10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)		--/5
COVID TASK FORCE Responsibilities.	Maintain social distance in department area	5/5

(If any) Please mention your role.		
Contribution towards Branding, Admissions, etc	Teli calling	10/10
TOTAL		123.85/190

Date: 16/09/2021

Signature of faculty

Comments from the HOD:

Very Sincere to his works, Little Communication Problems, but highly disciplined, he involves to all departmental works.

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO

ATTACHMENT - 1

SL. NO	SUBJECTS THOUGHT (CAY 2015-16 TO TILL DATE)	PASS %
K S SCHOOL OF ENGINEERING AND MANAGEMENT		
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%

ATTACHMENT - 2

Sl No.	FDP		
	Date	Topic	Organization
1.	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.
2.	27 July 2020 To 31 July 2020	Engineering analysis for Thermo fluids Research Challenges Using ANSYS	VTU, Department of Mechanical Engineering, Kalaburagi.
3.	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.
4.	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.
5.	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
6.	09 June 2020 To 13 June 2020	Research Trends in Thermal Engineering – 2020 (Webinar)	Department of Mechanical Engineering, BITM, Ballari – 583 104
7.	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
8.	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.
9.	30 Nov 2018 To 4 Dec 2018	Thoughtful Cooling	Department of Mechanical Engineering, NCET, Bengaluru in association with cBalance.
10.	17 Oct 2017	Flip Teaching	NCET, Bengaluru, in association with IEEE SSIT ES Joint Bengaluru Chapter
11.	16 Oct 2017	Project Based Learning	NCET, Bengaluru, in association with IEEE SSIT ES Joint Bengaluru Chapter.
12.	11 Sept 2017 To 16 Sept 2017	Robotics Simulation Software RT Toolbox - 2	NCET, Bengaluru, in association with Future Robotics & Automation
13.	04/03/2017	Infusion 2017	Organized by Institute of Industrial Design and CADD centre, Bengaluru.
14.	24 Nov 2016	Skills for Success – Communication and Relationship Skills	Department of Basic Science and Humanities, NCET, Bengaluru
15.	24 Sept 2016 To 28 Sept 2016	Scilab-An Open Source Programming Language	NCET, Bengaluru
16.	25 July 2016 To 30 July 2016	Advances in Mechanical Engineering	NCET Bengaluru, Supported by ISHRAE, Bengaluru Chapter
17.	20 Feb 2016 To 21 Feb 2016	Applications of MATLAB for Mechanical Engineers	SVCE, Bengaluru in association with infiDOF Solutions.

ATTACHMENT - 3

Sl. No.	Webinar/Conferences/Seminar		
	Date	Topic	Organization
1.	27 July 2020	Design Automation and Optimization Strategies for Mechanical Engineers	Department of Mechanical Engineering, University Visvesvaraya College of Engineering, Bengaluru
2.	13 July 2020	Advanced Feature of Microsoft Excel	Department of Electronics and Communication Engineering, KSSEM.
3.	09 July 2020	Journey of Entrepreneurship	SVCE, Bengaluru
4.	04 July 2020	Energy Transfer in Turbo Machine and Velocity Triangle	Department of Mechatronics Engineering Acharya Institute of Technology, Bengaluru
5.	04 July 2020	Adversity Quotient: Shifting Adversities into Opportunities	Nagarjuna College of Engineering and Technology, Bengaluru.
6.	03 July 2020	Recent Advancements in Tool Life Analysis	Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru.
7.	29 June 2020 To 01 July 2020	New Approaches in Mechanical Engineering	Department of Mechanical Engineering, JSS Academy of Technical Education, Noida.
8.	08 June 2020 To 12 June 2020	Industry 4.0	Department of Mechanical Engineering, NCET. Association with Institution's Innovation Council (IIC) and MHRD.
9.	10 June 2020	Overview of Aerospace Technical Publication	Department of Mechanical Engineering, KSSEM. In association with Bridge Now Academy.
10.	05 June 2020	Interrogation in MEMS, NEMS and Nano Technology	Department of Mechanical Engineering, Cambridge Institute of Technology, Bengaluru.
11.	05 June 2020	An Insight Into Fluid Machines in Mechanical and Civil Engineering	Department of Mechanical Engineering and Civil Engineering. SEA College of Engineering and Technology. Bangalore - 49
12.	**24 May 2018 To 26 May 2018**	**Development and Evaluation of an Adsorption Refrigeration System (Presented)**	**5th National Conference on Refrigeration & Air Conditioning 2018, Department of Mechanical Engineering, NITK Suratkal In association with IIT Madras.**
13.	17 Aug 2015 To 18 Aug 2015	Challenges and Opportunities in Cold Storage Technology	SVCE, Bengaluru in association with GKVK, Bengaluru.

Sl No.	Workshops		
	Date	Topic	Organization
1.	08 Feb 2020	Introduction to R and Data Science	Department of Computer Science and Engineering, KSSEM, Bengaluru. In Association With BITES
2.	10 June 2019 To 14 June 2019	Computational Methods for Partial Differential Equations using MATLAB	Department of Mathematics, BNMIT, Bengaluru, in association with BITES.
3.	18 Feb 2017 To 22 Feb 2017	R-Language	Department of Mathematics NCET, Bengaluru
4.	10 Mar 2016	Virtual Laboratory	NCET, Bengaluru, in association with Centre for System Design, NITK, Suratkal.

Sl No	QUIZ		
	Date	Topic	Organization
1.	03 Aug 2020	Fluid Power Systems	Department of Mechanical Engineering, ATME College of Engineering, Mysuru
2.	29 July 2020	Automobile Engineering	
3.	24 July 2020	Heat Transfer	Department of Mechanical Engineering, PESITM, Shivamogga
4.	23 July 2020	Connection – Online Mechanical Image Quiz	Department of Mechanical Engineering, AVC College of Engineering, Tamilnadu
5.	17 July 2020	Applied Thermodynamics	Department of Mechanical Engineering, ATME College of Engineering, Mysuru
6.	19 June 2020	Engineering Graphics	Department of Mechanical Engineering, B.L.D.E.Association's V.P. Dr P.G Halakatti College of Engineering and Technology, Vijayapur
7.	16 June 2020	Engineering Graphics	Aurora's Technological and Research Institute. Uppal, Hyderabad
8.	16 June 2020	CAED	School of Mechanical Engineering, REVA University, Bangalore 560 064
9.	15 June 2020	Renewable Energy Source	
10	15 June 2020	Biomaterials for Engineering Applications	
11.	13 June 2020	Intellectual Property Rights	Department of Mechanical Engineering, Navodaya Institute of Technology, Raichur
12.	06 June 2020	Kinematics of Mechanisms and Machines	School of Mechanical Engineering, REVA University, Bangalore 560 064
13.	06 June 2020	Dynamics of Machines	
14.	06 June 2020	MECH ZEAL	Department of Mechanical Engineering, V.P.Dr.P.G.Halakatti College of Engineering & Technology, Vijayapur
15.	06 June 2020	Management Studies	Bheemi Reddy Institute of Management Science, Alur Road, Adoni 518 301
16.	02 June 2020	Internal Combustion Engines	Bahubali College of Engineering, Shravanabelagola 573 135, Hassan

KAMMAVARI SANGHAM GROUP OF INSTITUTIONS

STAFF SELF APPRAISAL REPORT

2020-2021

KSSEM

Field	Data	SCORE
Name	NISHANTH NAG HD	
Present Address, Mob.No., e-mail id.	#1638, VASU, III BLOCK, SMV LAYOUT, SONNENAHALLI, B'LORE-056 [nishanthnag.hd@kssem.edu.in][7411227855]	
Age and Date of Birth	27 years — 15-11-1993	---
Qualification	M.TECH	
Designation and Department	ASSISTANT PROFESSOR, MECHANICAL ENGINEERING	
Teaching Experience (After PG)	03.6	
Other Experience(If any)	—	
List of Subjects Taught till date (use separate sheet if necessary)	1) TurboMachines 7) EME 2) Fluid Mechanics 3) Energy & Environment 4) Automobile Engineering 5) CAMD 6) Applied Thermodynamics	
*Subjects taught in the Assessment Year and percentage pass (10marks for each x Percentage) If Online please indicate.	1. CAMD 2. Automotive Engineering 3. Energy & Environment 4. EME	40/40
Details of UG Projects Guided (5 marks/ project guided) Online	1. Performance Evaluation of Di-diesel engine for different diesel blend ratios using Garcinia GummiGutta 2) Mini Project - Gravity Light	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA	1. — 2. —	/10
Percentage of Online classes held (No. of classes taken/no. of classes allocated x 5)	100	5/5

Student Feedback for Online classes. (Av.Percentage x 5 marks)	96.43 x5	4.8/5
Details of Industrial Visits arranged. (2marks/visit) Max 5 marks.	NOT APPLICABLE FOR CURRENT YEAR	
Number of FDPs attended since joining service (Attach Separate List)	List Attached.	--

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

Details of students mentored during current assessment year.	12	--
Details of Participation in VTU Bodies (2 Marks)	—	/2
Details on Examination related Activity (2marks each)	1. Practical Exams 2. Conduction of Theory exams 3. Paper Setting 4. Evaluation	4 /8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies)	1) Emerging Trends in Automotive and energy Systems. 2) Recent Advances in HVAC and Refrigeration	10 /10
Financial Assistance received during current year for attending FDPs	Rs. - Nil -	--
Status of Ph.D. [Attach proof for each stage] (This can be claimed only once during a life time after the PhD is awarded) [Attach proof 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)	01 /10

Research Publications: (5 marks each) [Attach copies of Title Page]	1. 2.	/10
Seminars / Workshops / Conferences attended (5 Marks each) [Attach Certificate Copies]	1) Knimbus online Training Programme. 2) Workshop on Importance of Hypermesh in Analysis	10 /10
Financial Assistance received during current year	Rs. Nil	--
Registered as Research Guide (Reasons for not registering)	Yes / No —	
Research Scholars registered with details	Yes / No — If Yes, 5 marks	/5
Details of Patents Applied for (If any) One application 5 marks	-Nil-	/5
Academic Programs organized and supported during current year. (FDP/Workshop/Seminar / Conference)	A 5 Day FDP on "Advances and Research in Mechanical Engineering"	5 /5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others	NPTEL online Course on Automobile Engineering.	5 /5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures.	Used NPTEL videos for the demonstration of Recent Trends and advancement of energy harvesting methods	5/5
Details of Project Proposal submitted during the current year. (At least one)	1) KSCST 2) VTU	5/5
Details of Project Funds Received.	Rs. Nil	/5
Consultancy Revenue Generated	Rs. Nil	/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 etc.	1) NAAC - C-1 Coordinator (Dept) 2) Student coordinator 3) Alumni coordinator 4) Sports	10
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE .....)	-Nil-	/5
COVID TASK FORCE Responsibilities.	Maintaining Social Distancing in the que for Students during examination - Thermal scanning	5 /5

(If any) Please mention your role.		
Contribution towards Branding, Admissions, etc	Represented college in education mela & telecalling.	10/10
	TOTAL	130/190

Date: 16/9/21

Signature of faculty

Comments from the HOD:

Very Young faculty be involved to departmental works at all time, very useful towards computer related work.

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO

Centre for Continuing Education

Indian Institute of Technology Madras

This is to certify that

Mr. Nishanth Nag H. D.

K.S. School of Engineering & Management, Bangalore

has participated in an AICTE Sponsored Short Term Course

Air Delivery Systems and Indoor Environment Quality

organized by the **Departments of Mechanical Engineering & Civil Engineering**

from 02nd March to 07th March, 2020

(M P Maiya)	(Shaligram Tiwari)	(S M Shiva Nagendra)	(N Ramesh Babu)	(Manu Santhanam)	(Devendra Jalihal)
Coordinators		Coordinator	Head	Head	Chairman
Mechanical Engineering		Civil Engineering	Mechanical Engineering	Civil Engineering	Centre for Continuing Education

K.S. GROUP OF INSTITUTIONS BANGALORE

KSSEM

K S SCHOOL OF ENGINEERING AND MANAGEMENT

BridgeNOW Academy

Certificate of Participation

This is to certify that Dr/Mr Mr. Nishanth Nag H D working as Asst. Professor 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.

Head of the Department

Principal

FLOWNEX®
SIMULATION ENVIRONMENT

IndiaSoft
IndiaSoft Technologies (P) Ltd.

Certificate of Participation

This is to Certify that Mr. / Ms.

Nishanth Nag HD

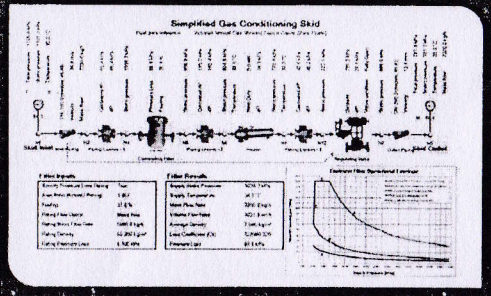
from

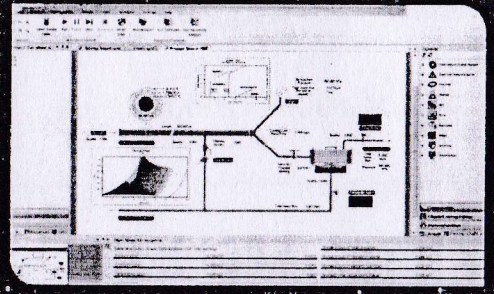
KSSEM, BENGALURU

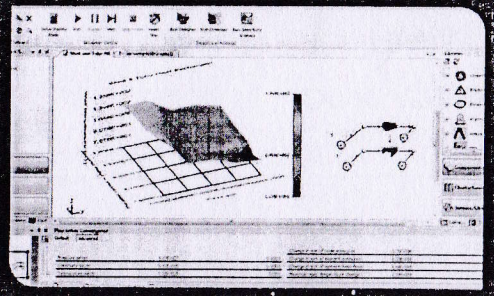
has attended the **Webinar on FLOWNEX, Thermodynamic Design, Modeling, Simulation, Analysis & Optimization Software, held on 10th June 2020, organised by IndiaSoft Technologies (P) Ltd.**

Mr. R K Irani
Chairman & Managing Director,
IndiaSoft Technologies (P) Ltd.

Mr. Sunil Chore
Country Head,
IndiaSoft Technologies (P) Ltd.







Kammavari 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. Nishanth Nag H D of

K S School of Engineering & Management has attended One Week online Faculty Development 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

MITE

Invent Solutions

Mangalore Institute of Technology and Engineering

Mangalore, Karnataka,
(An ISO 9001:2015 Certified Institution)
A unit of Rajalaxmi Education Trust ®
Affiliated to V.T.U., Belagavi, Approved by AICTE, New Delhi

AICTE

Certificate of Participation

This certificate if proudly presented to **Mr. Nishanth Nag HD** From **KS School of Engineering & Management** for his/her active participation in one week Faculty Development program on

"SUSTAINABLE ENERGY SOLUTIONS IN SOLAR ENERGY APPLICATIONS"

From 23rd to 27th of November-2020, organized by Department of Mechanical Engineering, Mangalore Institute of Technology and Engineering

Principal

Patrons

Dr. G L Easwara Prasad,
Principal,
MITE

Co-Ordinator

Dr. C R Rajashekar
Vice Principal &
Head, Dept of Mechanical Engg,
MITE

Certificate ID
MITE/FDP/NOV/2020/CERID#025

NITTE EDUCATION TRUST

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

ACCREDITED BY NBA (TIER-I)

CERTIFICATE
of Participation

This is to certify that

NIshanth Nag HD

from **KS School of Engineering & Management**

has Participated in the AICTE-ISTE Sponsored Six Days Online Refresher/Inductior Programme on **"Recent Advances in Heating, Ventilation, Air-Conditioning and Refrigeration"** from 14th to 19th December 2020, organized by Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bangalore-64, INDIA.

A+ NAAC

NBA NATIONAL BOARD OF ACCREDITATION

nirf All India Ranking 128

ARIIA ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

All India Ranking 03 (Under Private Self Financed Institute)

Programme Sponsored by

AICTE All India Council for Technical Education

ISTE INDIAN SOCIETY FOR TECHNICAL EDUCATION

Dr. Kiran Aithal S
Prof, Dept. Of Mech Engg,/Coordinator
NMIT, Bengaluru

Dr. Sudheer Reddy J
Head, Dept. Of Mech Engg,
NMIT,Bengaluru

Dr. H.C. Nagaraj
Principal,
NMIT, Bengaluru

Certificate ID: S9SX6Y-CE000065

PRESCIENTIA Group of Institutions in Association with DIBAKAR TRUST

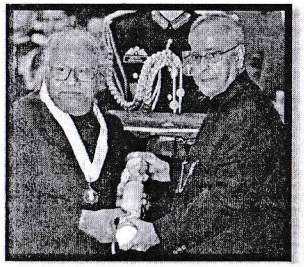
Kalibari Road, Hailakandi – 788151, Assam

National Level Webinar on

Journey from Chemistry to Nanoscience

Webinar Platform: Google Meet **Date: 1st July, 2021** **Time: 6.00 - 9.00 pm**

Celebrating the Glorious Occasion of 87th Birth Day of Living Legend Bharat Ratna Scientist Prof. C. N. R. Rao



Certificate

This is to certify that *Mr Nishanth Nag H D*, **Assistant Professor, KS School of Engineering & Management, Bengaluru, Karnataka** has **participated** in the **National Level Webinar on Journey from Chemistry to Nanoscience** organized by **Prescientia Group of Institutions**, Hailakandi, Assam on **1st July, 2021.** His/ her participation in the said event is highly appreciated.

(DR KANISHKA BISWAS)	(DR BANI KANTA SARMA)	(DR SANDIPAN DHAR)	(PROF BIJOY KUMAR DHAR)
Invited Speaker	Invited Speaker	Webinar Moderator	President
Associate Professor	Assistant Professor	NCSC-Former National	Prescientia Group of
New Chemistry Unit	New Chemistry Unit	Programme Coordinator	Institutions, Hailakandi
JNCASR, Bengaluru	JNCASR, Bengaluru		

KSSEM

knimbus
Your eLibrary. Anywhere. Any Device.

Certificate of Participation

This is to certify

Nishanth Nag H D

Participated in Knimbus Online Training on "Effective Utilization of VTU Subscribed e-Resources Anywhere, Anytime, Any Device Using KSSEM Digital Library Powered by Knimbus" held on 23rd August' 2021.

Mr. Venkatesh V
Trainer

Mr. Tarun Arora
Chief Executive Officer

SREE VIDYANIKETHAN Engineering College (Autonomous)

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet, Tirupati – 517 102

(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. NISHANTH NAG HD

has participated in A Five Day National Level Online Faculty Development Program on **"Emerging trends in Automotive and Energy Systems"** held from 23-08-2021 to 27-08-2021 organized by Department of Mechanical Engineering , **Sree Vidyanikethan Engineering College (Autonomous)**, Tirupati.

Dr.R.L.Krupakaran
Convener

Dr. R.Satya Meher
Professor & Head
Dept. of ME

Dr. B.M.Satish
Principal, SVEC

KSCST

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE

44th SERIES OF STUDENT PROJECT PROGRAMME

(Hand written proposals will not be accepted, please fill all the details in this MS word file as per the following format. Kindly take a photocopy of completely filled project proposal and Demand Draft for filling up the Google Forms.)

https://forms.gle/yqSYxZRP6uJsP5QA8

1.	**Name of the College: K.S SCHOOL OF ENGINEERING AND MANAGEMENT**
2.	**Project Title :Performance Evaluation of Di-Diesel Engine for Different Diesel Blend Ratios of Garcinia Gummi Gutta seed**
3.	**Branch: MECHANICAL ENGINEERING**
4.	**Theme (as per KSCST poster) :Bio Energy: Production of biodiesel and Emission Profiles for different variety and blends of biodiesel**
5.	**Name(s) of project guide(s) :** **1. Name: Mr. Nishanth Nag .H.D** **Email id : nishanthnag.hd@kssem.edu.in** **Contact No. : 7411227855**
6.	**Name of Team Members (Strictly not more than four students in a batch):** *(Type names in Capital Letters as provided in your college)* **Name: Navneeth S Shetty** **USN No.: 1KG17ME021** **Email id: navneethshetty1999@gmail.com** **Mobile No: 9740755191** 

	Name: Shivraj T **USN No.:** 1KG17ME026 **Email id:** rakshith6548@gmail.com **Mobile No.:** 9035196844  **Name:** Sathvik R **USN No.:** 1KG17ME031 **Email id:** rameshsathvik9@gmail.com **Mobile No.:** 9448643019  **Name:** Rakshith M **USN No.:** 1KG17ME34 **Email id:** tshivaraj247@gmail.com **Mobile No.:** 6363647587 
7.	**Team Leader of the Project :** **Name:** Navneeth S Shetty **USN No. :** 1KG17ME021 **Email id :** navneethshetty1999@gmail.com **Mobile No. :** 9740755191
8.	**Processing Fee Details (Demand Draft should be drawn from Canara Bank / State Bank of India only):** (processing fee of Rs. 1000/- drawn in favor of Secretary, KSCST, Bangalore – 12) **Demand Draft No. : 871840** **Date : 05-01-2021** **Bank name : State Bank of India** **Note :** Please write Team leader name, Contact No., Project Title and Name of the College on the backside of the DD.
9.	**Date of commencement of the Project : 25-11-2020**
10.	**Probable date of completion of the project : 30-04-2021**
11.	**Scope / Objectives of the project :** 1. To extract crude oil from non-edible Garcinia Gummi Gutta seed.

	2. To optimize Garcinia Gummi Gutta crude oil, Response surface methodology in conjunction with central composite design based on five level four factors was employed. 3. To evaluate chemical and physical properties of Garcinia Gummi Gutta methyl ester for different blend ratios with diesel 4. To study the performance of Di-diesel engine for various blend ratios and performance graphs are plotted
12.	**Methodology :** 1. Collection of Garcinia Gummi Gutta seeds 2. Extraction of crude Garcinia Gummi Gutta Seed by using Mechanical Expeller. 3. Conducting acid esterification reaction using H_2SO_4 catalyst particular molar ratio to reduce FFA<2%. 4. Factorial design using ANOVA tool from neat biodiesel CaO Nano Catalyst for determining optimized values of methanol to oil molar ratio, catalyst wt%, reaction time and temperature by conducting 30 samples of experiment using RSM. 5. Preparation of mass quality of biodiesel at optimized molar ratio, catalyst concentration, time and temperature. 6. Preparing biodiesel samples by blending diesel with Garcinia Gummi Gutta methyl ester such has [D100, B20, B40, B60, B80 and B100]. Using standard experimental set up as per ASTM, different physical properties like calorific value, density, specific gravity, viscosity, flash point, fire point, cloud point and pour point and chemical properties like free fatty acid, glycerol saturated fatty acids and unsaturated fatty acid were determined for produced biodiesel samples. **Note:** In case of fabrication work in the project, an engineering drawing with dimensions / detailed design should be attached to the proposal.
13.	**Expected Outcome of the project :** Arriving at a particular molar ratio and using environmental friendly Nano heterogeneous catalyst so as to obtain higher yield of biodiesel and thereby reducing its cost of production .Also determining the optimum compression ratio for engine at which higher efficiency can b e obtained for various blend ratios.

14.	**Is the project proposed relevant to the Industry / Society or Institution? :** **Yes / No : No** **If Yes, Please provide details of the Industry / institution and contact details :** (**Note:** Preference will be given to those projects relevant to the industry / institution. Hence be specific in giving detailed information). Is the industry extending support - technology / funds / use the final product, please specify.
15.	**Can the product or process developed in the project be taken up for filing a Patent?** **Yes / No : No** **Prior Art search done?** **Yes/No : No** **Note:** If Yes, you may contact Patent Information Centre of KSCST for more details Email : patent@kscst.iisc.ernet.in
16.	**Budget details (break-up details should be given) :** Note : KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.
17.	**Any other technical details (Please specify) : NA**

Budget	Amount
a) Materials / Consumables	40,000.00
b) Labor	1,000.00
c) Travel	1,000.00
d) Report	1,000.00
e) Miscellaneous	2,000.00
Total	45,000.00

18.	**SPP Coordinator (Identified by the college) :** **Note:** To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal. **Name :** Prof. Santhosh Kumar J **Email id :** santosh.kumar.j@kssem.edu.in **Contact No. :** 9035636616

Nishanth. Nag. H D

Nishanth Nag H D 6/1/21

(Name &Signature of Project Guide with Seal)
Email id:nishanthnag.hd@gmail.com
Contact No.:7411227855

Dept. of Mechanical Engineering KSSEM

6/01/21

(Name &Signature of HOD with Seal)
Email id: hod.mech@kssem.edu.in
Contact No.: 9845496309

Professor & Head
Department Of Mechanical Engineering
K.S. Group Of Institutions
K.S. School Of Engineering & Management
Bangalore-560 109

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project tile, students name will be intimated immediately. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangalore.

We are aware that the project team has to exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

	Name of the students	**Signature with date**
1.	Navneeth S Shetty	Navneeth.S 6/1/2021
2.	Rakshith M	Rakshith M 6/1/2021
3.	Sathvik R	Sathvik.R 6/1/2021
4.	Shivraj T	Shivraj.T 6/1/2021

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project tile, students name will be intimated immediately. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangalore.

We are aware that the project team has to exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

	Name of the students	**Signature with date**
1.	Navneeth S Shetty	Navneeth.S 6/1/2021
2.	Rakshith M	Rakshith M 6/1/2021
3.	Sathvik R	Sathvik.R 6/1/2021
4.	Shivraj T	Shivraj.T 6/1/2021

KAMMAVARI SANGHAM (R), 1952
K.S. School of Engineering and Management
Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi
15, Near Vajarahalli, Mallasandra, off Kanakapura Road,
Bengaluru - 560 019, www.kssem.edu.in
Tel : +91 80 28425012/013/163, Fax : +91 80 28425164, Mob : 8884444408

ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head)

This is to certify that 1) Mr. Navneeth S Shetty, 2) Mr. Rakshith M 3) Mr. Sathvik R, 4) Mr. Shivraj T, are bonafide student(s) of Department of Mechanical Engineering, in the degree program of our institution. If the project proposal submitted by these students under the 44th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.

Nishanth Nag HD
Nishanth Nag HD 6/1/21

(Name & Signature of Project Guide with Seal)

Emailid:
nishanthnag.hd@kssem.edu.in

Contact No.: 7411227855

DR. BALAJI. B

6/01/21

(Signature of HOD with Seal)

Email id: hod.mech@kssem.edu.in

Contact No.: 9845496309

Professor & Head
Department Of Mechanical Engineering
K.S. Group Of Institutions
K.S. School Of Engineering & Management
Bangalore-560 109

6/1/2021

(Signature of the Principal with Seal)

Email id: principal@kssem.edu.in

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

MANIPAL TECHNOLOGIES LIMITED, KARNATAKA / CTS-2010

भारतीय स्टेट बैंक
State Bank of India
Issuing Branch: AMC ENGINEERING COLLEGE BR
कोड क्र /CODE No. 41165
Tel No. 080-12345678

बैंकर्स चेक
BANKERS CHEQUE

Key: REFCUN
Sr. No. 698774

0 6 0 1 2 0 2
D D M M Y Y Y Y

PAY SECRETARY KSCST BANGALORE-12 ****************************** को या उनके आदेश पर OR ORDER

रुपये **RUPEES** One Thousand Only

अदा करें ₹ 1000.00

IOI 000489871840 Key: REFCUN Sr. No: 698774 AMOUNT BELOW 1001(0/4)
Name of Applicant NAVNEETH S SHETTY

VOID

अहस्तांतरणीय / NOT TRANSFERABLE

प्राधिकृत हस्ताक्षरकर्ता
AUTHORISED SIGNATORY

शाखा प्रबंधक
BRANCH MANAGER

T.N.C. INDIRA
PF.No. 5535298
S.S.No 1484

कम्प्यूटर द्वारा मुद्रित होने पर ही वैध
VALID ONLY IF COMPUTER PRINTED

केवल 3 महीने के लिए वैध
VALID FOR 3 MONTHS ONLY

₹ 1,50,000/- एवं अधिक के लिखत दो अधिकारियों द्वारा हस्ताक्षरित होने पर ही वैध है।
INSTRUMENTS FOR ₹ 1,50,000/- & ABOVE ARE NOT VALID UNLESS SIGNED BY TWO OFFICERS

⑈871840⑈ 000002000⑆ 000489⑈ 16

Visvesvaraya Technological University
"JnanaSangama"
Belagavi: 590018
Karnataka, India.
Tele: 0831-2498225 ,2405454

VTU Sponsored Student Project Proposal Format

01	Academic Year :	2020-2021	
02	Semester :	VIII	
03	Name of the College :	K.S SCHOOL OF ENGINEERING AND MANAGEMENT	
04	Branch:	MECHANICAL ENGINEERING	
05	Project Title:	Performance Evaluation of Di-Diesel Engine For Different Diesel Blend Ratios Using Garcinia Gummi Gutta	
06	Project Discipline:	BioDiesel / Renewable Energy	
07	Principal	Name:	Dr. K.Rama Narasimha
		Contact No:	+91 9606055906
		Email id:	principal@kssem.edu.in
08	HOD	Name:	Dr. Balaji Boyalla
		Contact No:	9845496309
		Email id:	hod.mech@kssem.edu.in
09	Project Guide	Name:	Mr. Nishanth Nag .H.D
		Contact No:	7411227855
		Email id:	Nishanthnag.hd@kssem.edu.in
10	Project Co-Guide(If any)	Name:	
		Contact No:	
		Email id:	
11	Project Committee coordinator (Identified by the college) :	Name:	Dr. PN Jyothi
		Contact No:	9663080471
		Email id:	jyothi.p.n@kssem.edu.in

12	Name of project group Members	
	1.Group leader and Member	
	Name: Navneeth S Shetty USN No. : 1KG17ME021 Contact No: 9740755191 Email id: navneethshetty1999@gmail.com	
	2.Member	
	Name: Shivraj T USN No. : 1KG17ME034 Contact No: 6363647587 Email id: tshivaraj247@gmail.com	
	3.Member	
	Name: Sathvik R USN No. : 1KG17ME031 Contact No: 9448643019 Email id: rameshsathvik9@gmail.com	
	4.Member	
	Name: Rakshith M USN No. : 1KG17ME026 Contact No: 9035196844 Email id: rakshith6548@gmail.com	
	5.Member(If any)	
	Name: USN No. : Contact No: Email id:	
13	Processing Fee Details	Bank name : Branch : DD number with date : OR Cheque no with date :

14	Scope / Objectives of the project:	1. To extract crude oil from non-edible Garcinia Gummi Gutta seed. 2. To optimize Garcinia Gummi Gutta crude oil, Response surface methodology in conjunction with central composite design based on five level four factors was employed. 3. To evaluate chemical and physical properties of Garcinia Gummi Gutta methyl ester for different blend ratios with diesel. 4. To study the performance of Di-diesel engine for various blend ratios and performance graphs are plotted.
15	Methodology of work: (Including diagram, flow chart and design calculations)	1. Collection of Garcinia Gummi Gutta seeds 2. Extraction of crude Garcinia Gummi Gutta Seed by using Mechanical Expeller. 3. Conducting acid esterification reaction using H_2SO_4 catalyst particular molar ratio to reduce FFA<2%. 4. Factorial design using ANOVA tool from neat biodiesel CaO Nano Catalyst for determining optimized values of methanol to oil molar ratio, catalyst wt%, reaction time and temperature by conducting 30 samples of experiment using RSM. 5. Preparation of mass quality of biodiesel at optimized molar ratio, catalyst concentration, time and temperature. 6. Preparing biodiesel samples by blending diesel with Garcinia Gummi Gutta methyl ester such has [D100, B20, B40, B60, B80 and B100]. 7. Using standard experimental set up as per ASTM, different physical properties like calorific value,

12	Name of project group Members	
	1.Group leader and Member	
	Name: Navneeth S Shetty USN No. : 1KG17ME021 Contact No: 9740755191 Email id: navneethshetty1999@gmail.com	
	2.Member	
	Name: Shivraj T USN No. : 1KG17ME034 Contact No: 6363647587 Email id: tshivaraj247@gmail.com	
	3.Member	
	Name: Sathvik R USN No. : 1KG17ME031 Contact No: 9448643019 Email id: rameshsathvik9@gmail.com	
	4.Member	
	Name: Rakshith M USN No. : 1KG17ME026 Contact No: 9035196844 Email id: rakshith6548@gmail.com	
	5.Member(If any)	
	Name: USN No. : Contact No: Email id:	
13	Processing Fee Details	Bank name : Branch : DD number with date : OR Cheque no with date :

		...sity, flash point, fire ...., cloud point and pour point and chemical properties like free fatty acid, glycerol saturated fatty acids and unsaturated fatty acid were determined for produced biodiesel samples.
16	Expected Outcome of the project:	Arriving at a particular molar ratio and using environmental friendly Nano heterogeneous catalyst so as to obtain higher yield of biodiesel and thereby reducing its cost of production .Also determining the optimum compression ratio for engine at which higher efficiency can be obtained for various blend ratios.
17	Application of the project :	1) Reduction in Diesel consumption 2) Reduction of pollutants such as Carbon monoxide emissions which are let out in the atmosphere.
18	Budget details with Materials required:	**Budget** / **Amount** a) Materials / Consumables — 40,000.00 b) Labor — 1,000.00 c) Travel — 1,000.00 d) Report — 1,000.00 e) Miscellaneous — 2,000.00 **Total** — 45,000.00
19	Date of commencement of the Project :	25-11-2020
20	Probable date of completion of the project :	05-05-2021
21	Duration of project work :	6 Months

22	Pert chart for completion of the project in said duration as per planned activities:

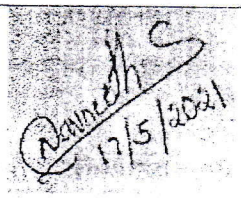
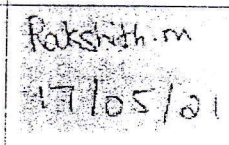
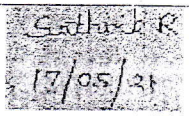
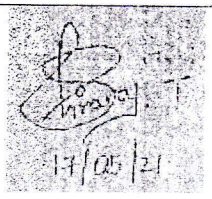
Sl.No	Activities Planned	1 Month/ Week	2 Month/ Week	3 Month/ Week	4 Month/ Week	5 Month/ Week	6 Month/ Week
01	Literature review	December 4 Weeks					
02	Planning/ Designing		January 4 Weeks				
03	Assembly/ Fabrication work			February/ March 8 Weeks			
04	Final Testing				April/May 8 Weeks		
05	Result & Calculation/ Conclusion					June 4 Weeks	
06	Preparation of Report & Submission						July/ August 5 Weeks

DECLARATION BY THE STUDENTS

We, the project group members hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge. We undertake to inform VTU, of any changes there in the project title, students name will be intimated immediately. In case, any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it.

We are aware that the project group has to exhibit / demonstrate the project for evaluation in the VTU Regional centre and for exhibition at VTU, Belagavi. If the project group fails to attend the evaluation in Regional centre and for Exhibition in VTU Belagavi, the sponsored project amount will be returned back to VTU immediately.

We also hereby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	Navneeth S Shetty	
02	Rakshith M	
03	Sathvik R	
04	Shivraj T	

ENDORSEMENT

(Endorsement to be taken in the institution on Department Letter head)

This is to certify that 1] Mr. Navneeth S Shetty, 2] Mr. Rakshith M, 3] Mr. Sathvik R, 4] Mr. Shivraj T are bonafide students of Department of Mechanical Engineering of our institution. If the project proposal submitted by these students under VTU Sponsored Student Project Proposal is selected by VTU, we will provide the required laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps that the project group will exhibit / demonstrate their project in the Regional centre and for exhibition at VTU, Belagavi. If the student group fails to attend the evaluation in Regional centre and exhibition at VTU Belagavi, the supported project amount will be returned back to VTU immediately.

Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of the Principal with Seal and date
Nishanth Nag HD 17/9/21		
Name: Nishanth Nag HD	Name: Dr. Balaji Boyalla	Name: Dr. K Rama Narasimha

Professor & Head
Department Of Mechanical Engineering
K.S. Group Of Institutions
K.S. School Of Engineering & Manage
Bangalore-560 109

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