STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE
Name	Dr. Arun Kumar M	
Present Address, Mob.No., e-	No. 647, 5 th main 12 th cross, MCR Layout,	
mail id.	Vijayanagar, Bangalore - 560040	
Age and Date of Birth	45 years, 04/12/1976	
Qualification	B.E, M.E, Ph.D	
Designation and Department	Associate Professor	
Teaching Experience (After PG)	17 years 10 months	
Other Experience(If any)	2 years as faculty for software training	
	1 year as lecturer in SCTIT	
List of Subjects Taught till date	1. Signals and systems	
(use separate sheet if necessary)	2. Basic electrical engineering	
	3. Basic electronics	
	4. Programming in C++	
	5. Field theory	
	6. Power electronics	
	7. Digital signal processing	
	8. Embedded systems	
	9. Real time embedded systems	
	10. Automotive electronics	
	11. Control systems	
	12. Flexible AC transmission systems	
	13. Industrial Drives and application	
	14. Linear and non-linear optimization	
	15. FACTS and HVDC Transmission	
Number of FDPs attended since	1. Innovation, Business Models and	
oining service	Entrepreneurship (61%)	
Attach Separate List)	2. Patent Search for Engineers and Lawyers (60%)	
Enclosed: Annexure – 01	3. NPTEL - Ethics in engineering	
	practice(Exam Consolidated score: 69%)	
	4. NPTEL - Teaching and learning in general programs (Exam Consolidated score: 75%)	
	 NPTEL - NBA Accreditation and Teaching Learning in Engineering (Exam Consolidated score: 75%) 	

	 NPTEL - Managing Intellectual Property in Universities (Exam Consolidated score: 78%) NPTEL - Intellectual Property (Exam Consolidated score: 85%) NPTEL - Technical English (Exam Consolidated score: 65%) SWAYAM ARPIT – Assessment of practical and social skills in higher education (Exam Consolidated score: C grade) 	
*Subjects taught in the Assessment Year and percentage pass (Both Theory &Practicals) (10marks for each x Percentage) If Online please indicate.	1. Artificial Intelligence Techniques for Electric and Hybrid Electric Vehicles :(100/100)*10 = 10 2. Power Electronics: (64.3/100)*10 = 6.43 3. Basic Electrical Engineering: (61/100)*10 = 6.1 4. FACTS and HVDC Transmission: (Expected Awaited Result = (90/100)*10 = 9) 5. Power Electronics Lab: (100/100)*10 = 10 6. Basic Electrical Engineering Lab: (100/100)*10 = 10	51.53/40
Details of UG Projects Guided (5 marks/ project guided)Provide Titles (HOD to endorse)	1. Solar Power Indoor Air Purifier (8 th sem)	10/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	1. 2.	/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	(37/39)*5 = 4.74 2. Power Electronics: (52/52)*5 = 5 3. Basic Electrical Engineering = (40/40)*5 = 5 4. FACTS and HVDC Transmission = (40/40)*5 = 5	4.93/5
Student Feedback for Offline / Online classes.(Av.Percentage x 5 marks) Give details. HOD to verify. Enclosed: Annexure – 02	1. 7 th sem: 89.43 2. 5 th sem: 96 3. 1 st sem: 88.50 ((89.43+96+88.5)/3)*0.01*5=4.57 cts for which end exam was conducted	4.57/5

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

etails of students entored uring current ssessment year. Furnish details)		
Details of Participation n <u>VTU</u> Bodies (2 Marks) Furnish details and proofs.		/2
related Activity (2marks each) Marks only for external responsibility.)	Practical Exams Conduction of Theory exams Paper Setting Evaluation	8/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	 Innovation, Business Models and Entrepreneurship (Consolidated score: 61%) Enclosed: Annexure – 03 Patent Search for Engineers and Lawyers (Consolidated score: 60%) Enclosed: Annexure – 04 	10/10
Financial Assistance received during current year for attending FDPs	Rs.	
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	 Awarded (2 marks) Thesis Submitted and awaiting reports (1 mark) Thesis Preparation (2 Mark) Experimentation/Data Collection in completed (1 mark) Comprehensive viva voce completed (1 mark) Appeared for Course work exams (1 mark) Applied for registration formalities (1 mark) Identified Guide/Research Centre and preparing research Proposal (1 mark.) Not thought of pursuing Ph.D. (zero) 	10/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify.	 "Non-Invasive Device to Measure and Monitor Lung Capacity", International Journal of Innovative Research in Science, Engineering and Technology, Vol 10, Issue 	5/10

[Attach copies of Title	12, December 2021, pp 15860 – 15867.	
Page]	Another two papers are ready for submission to	<i>ii</i>
Enclosed: Annexure –	publish.	
05		
Seminars / Workshops /	1.	/10
Conferences attended		/10
(5 Marks each) Data to	2.	
be verified by HODs.		
[Attach Certificate		
Copies]		
Financial Assistance	Rs.	
received during current		
year for attending such events.		
Registered as Research	No	-
Guide (Reasons for not	If ' Yes ' furnish details.	
registering)		7.
Research Scholars	No	/5
registered with details	If Yes, 5 marks	
Details of Patents		/5
Applied for (If any) One application 5 marks		
Provide Details.		
Academic Programs		
organized and		/5
supported during		
current year.(Only FDP/Workshop/Semina		
r / Conference) . Do not		
include Webinars.		
Details of programs		
attended for skill		/5
development like		
MOOCs, MOODLES, COURSERA, NPTEL and		
others (Only programs		
>= 20 hours need to be		
considered.		
Details of Utilization of	Following NTPEL materials were referred to	/ -
NPTEL and other Online materials for	 students as additional study materials https://nptel.ac.in/courses/108/106/10810617 	/5
augmenting own	0/	
lectures. Provide proof	https://nptel.ac.in/courses/108107114/	
for using this in the	 https://nptel.ac.in/courses/108105066 	
classroom. HOD to		

erify.		
Petails of Project Proposal submitted during the current year. At least one) Provide Details	Solar Air Purifier is submitted to VTU for VTU financial assistance.	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Rs.	/5
Consultancy Revenue Generated	Rs.	/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, Accreditation etc.(2marks for each responsibility)	 Head of the Department, EEE College NAAC 7 coordinator Dept Mini-Project coordinator Dept Time-table coordinator Dept IA coordinator Dept IQAC coordinator 	10/10 6\(^0
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE)(2marks for first membership &3 marks for second membership)	Life member IETE Initiated to upgrade Life member IETE to Fellow member IETE.	2/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOD.]		5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOD.]	Telephonic call	5/10

Signature of faculty

Date: 16/7/2022

120

Comments from the HOD:

Signature of the HOD

Comments of the Principal after the discussion:

Signature of the Principal

CEO









MARKSHEET

Course Name Marks Total Marks Marks	cipline Year	SHEET Name: ARU DOB: 04-12	-1976				
MG 2021 Innovation, Business Models and Entrepreneurship 17.5 43.5 61 Pass Elit	ica	Course Name		irks			
Innovation, Business Models and Entrepreneurship 17.5 43.5 61 Pass Elia			Assignment (25%)			Status	Performance
HS 2021 Patent Search for Engineers and Lawyers 17.5 43.5 61 Pass Elit	MG 2021	Innovation, Business M					
MG 2020 Ethics in Engineers and Lawyers 18.71 41.5 60 Pass Elit	HS 2021	Laurepreneurship	17.5	125	2.		
GE 2020 Teaching And Learning in General Programs: TALG 20 54.75 75 Pass Elite + S	202	atent Search for Engineers and Lawyers					Elite
HS 2019 Managing Intellectual Property in 20 54.75 75 Pass Elite + 5	CD 2021	Ethics in Engineering Practice	X.13.11				Elite
HS 2019 Managing Intellectual Property in Universities 20 54.75 75 Pass Elite + 9 HS 2018 Intellectual Property 23.33 54.75 78 Pass Elite + 9 HS 2018 Technical english for engineers 20.53 64.13 85 Pass Elite + 9 HS 2018 Patent Law for Engineers and Scientists 16.79 48 65 Pass Elite + 9 HS 2018 Patent Drafting for Beginners 22.5 32.25 55 Pass -	202	And Learning in General Programs			37	rass	Elite
HS 2018 Intellectual Property 20.53 54.75 78 Pass Elite + S	HS 201	Managing Intellectual Property in	20	54.75	75	Pass	Elite + Silver
HS 2018 Technical english for engineers 20.53 64.13 85 Pass Elit HS 2018 Patent Law for Engineers and Scientists 22.5 32.25 55 Pass Elit HS 2018 Patent Drafting for Beginners 14.25 22.5 32.25 55 Pass -	HS 201	Universities	23.33	54.75	7.8	Pass	Elite + Silver
HS 2018 Patent Law for Engineers and Scientists 22.5 32.25 55 Pass Ellin HS 2018 Patent Drafting for Beginners 14.25 23.25 55 Pass		intercectual Property	20.53	64.13	85	Pass	Elite
HS 2018 Patent Drafting for Beginners 1425 2225 33 Pass -	HS 201		16.79	48	65	Pass	Elite
14.25 33.75 48 Pass	HS 20	8 Patent Drafting for Beginners			55	Pass	-
		and a seguiners	14.25	33.75	48	Pass	-

PROF. ANDREW THANGARAJ NPTEL COORDINATOR IIT MADRAS

1			4.0
AE	Aerospace Engineering		
AG	Agriculture		
CE	Architecture		
3T	Biotechnology		
CH	Chemical Engineering		
CY	Chemistry and Biochemistry		
CE	Civil Engineering		
CS	Computer Science and Engineering		
EE	Electrical Engineering		1
EC	Electronics & Communication Engineering		1
ED	Engineering Design		1
BT	General		
HS	Humanities and Social Sciences		-
MG	Management		
MA	Mathematics		
ME	Mechanical Engineering	8	1 1
MM	Metallurgy and Material Science		- 1
MM	Mining Engineering		
GE	Multidisciplinary		,
OE PH	Ocean Engineering		
SS	Physics		
DE	Special Lecture Series		
J.L.	Textile Engineering		100

	Total Mark	No.
	>=90	
_	75-89	
-	>=60	
	PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPORT NAME	

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K. S. School of Engineering & Management, Bangalore - 560109

Department of Electrical & Eletronics Engineering Staff Feedback (2021-22) Odd Sem

Seventh Sem

Faculty Name: Dr.ArunKumar M

Sl. No.	f, Effective Planning & organisation	2, Punctuality / Class time Utilization	3. Ability to teach /explain / effective use of board	4, Interaction / Motivating students	5. Subject knowfedge	Presentation of the subject / communication	7. Linking subject with practical application	8. Syllabus covenruge / exam point of view	Evaluation of test / counselling	III. Attitude towards students
1	5	5	5					zė ¬	oʻ.	
2	4	4		5	5	5	5	5	5	5
3	4		4	4	4	4	4	4	4	4
4		4	4	4	4	4	4	4	4	4
	4	4	3	3	4	4	5	3	4	5
5	5	5	5	5	5	5				
6	5	5	5	5			5	5	5	5
7	4	3	4		5	5	5	5	5	5
Col. Total	3:	_	-	5	4	5	4	5	5	5
				31	31	32	32	31	32	33
Col. Avg.	4.42857	1 4.285714	4.285714	4.428571	4.428571	4.571429	4.571429	4.428571	4.571429	4.714286
Over all %	89.43									

Head of Department

Associate Professor Head of the Department

Department of Electrical & Electronics Engineering KS School of Engineering and Management Bengaluru-560 109

14. Parat

Principal



K. S. School of Engineering & Management, Bangalore - 560109

Department of Electrical & Eletronics Engineering Staff Feedback (2021-22) Odd Sem

Fifth Sem

Faculty Name: Dr. Arun Kumar M

· ·		c, tamazon								
Sl. No.	1. Effective Planning & organisation	2. Punctuality / Class time Utilization	3. Ability to teach /explain / effective use _of board	4. Interaction / Motivating students	5. Subject knowledge	6. Presentation of the subject / communication	7. Linking subject with practical application	8. Syllabus covearage / exam point of view	9. Evaluation of text / . gounselling	10. Attitude towards students
1	5	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5	5
3	5	5	5	4	5	4	4	4	4	4
Col. Total	15	15	15	14	15	14	14	14	14	14
Col. Avg.	5.00	5.00		4.67	5.00	4.67	4.67	4.67	4.67	4.67
Over all %	96.00		3.00	4.07	3.00	4.07	4.07			

Head of Department

Tr. Rarat

Principal

Associate Professor Head of the Department Department of Electrical & Electronics Engineering K S School of Engineering and Management Bengaluru-560 109



K. S. School of Engineering & Management, Bangalore - 560109 Department of Basic Science

Staff Feedback (2021-22) Odd Sem First Sem 'B' Sec

Wanter Nat	ne: Dr. Aru	n Kumar			COCIII D	,cc				
Faculty 11.			· u						$\overline{}$	S
SI. No.	1. Essective Planning & organisation	2. Punctuality / Class time Utilization	3. Ability to teach /explain / effective use of board	4. Interaction / Motivating students	5. Subject knowledge	6. Presentation of the subject / communication	7. Linking subject with practical application	8. Syllabus covearage / exam point of view	9. Evaluation of test / counselling	10. Attitude towards students
1	5	5	5	5	5	4	5	5	5	5 4
2	4	4	3	4	5	3	4	2	4	5
3	5	5	5	5	5	5	5	5	5	3
4	3	3	3	3	3	3	3	3	3	5
5	2	5	2	1	3	2	4	2	4	5
6	5	5	4	5	4	5	4	5	5	5
7	5	5	4	5	5	5	5	5	5	5
8	5	5	5	5	5	5	5	5	5	5
9	4	5	4	5	5	5	5	5	5	5
10	5	5	5	5	5	5	5	5	5	5
11	5	5	5	5	5	5	5	5	5	5
12	5	5	5	5	5	5	5	5	5	5
13	5	5	5	5	, 5	5	5	5	5	5
14	5	5	5	5	4	4	4	4	4	4
15	4	4	5	5	5	5	5	5	5	5
16	5	5	4	4	4	4	4	4	4	4
17	4	4	5	5	5	5	5	5	-5	5
18	5	5	4	4	4	4	5	4	5	5
19	4	4	4	4	4	4	4	4	4	4
20	4	5	4	3	4	3	4	3	4	5
21	4	5	4	3	5	4	4	4	5	4
22	5	5	5	5	5	5	5	5	5	5
23	5	5	4	5	5	4	5	5	5	5
24	5	5	5	5	5	5	5	5	5	5
25	5	5	5	5	5	5	5	5	5	5
26	5	5	5	5	5	5	4	5	5	5
27	4	5	4	4.	4	3	2	3	3	5
29	3	3	3	2	3	3	3	3	3	2
30	4	4	5	5	5	5	5	5	5	5
31	5	5	- 5	5	5	4	- 4	4	5	4
32	5	5	4	4	5	4	4	4	4	5
33	4	4	4	4	4	4	4	4	4	4
34	4	4	4	4	4	4	4	4	4	4
35	5	5	5	4	5 ்	5	5	4	5	5
36	5	5	5	5	5	4	4	4	5	5
37	4	3	4	3	4	4	3	4	4	4
38	4	4	4	3	3	3	3	4	4	4
39	4	4	4	2	4	3	4	3	4	4

40	5	5	5	-						
41 .	3	4	2	5	5	4	4	3	1	-1
42	5	4		3	4	2	3	3	4	_5
43	4	5	5	4	5	4	5	4	5	1
44	5	5	3	4	3	3	3	3	4	4
45	5	5	5	5	5	- 5	5	5	5	174
46	5	5	5	5	5	5	5	5	5	5
47	5	5	5	5	5	5	5	5	5	5
48	5	5	5	5	5	5	5	5	5	5
Col. Total	215		5	5	5	5	5	5	5	5
Col. Avg.	4.48	222	209	206	218	203	208	204	218	221
Over all %	88.50	4.63	4.35	4.29	4.54	4.23	4.33	4.25	4.54	4.60

Head of Department

Principal

14. Pare 1

(Annexure -03)

Roll No:NPTEL21MG63S43221890

TO ARUN KUMAR M
NO. 647, 5TH MAIN, 12TH CROSS
MRCR LAYOUT, VIJAYANAGAR
BENGALURU
KARNATAKA - 560040
PH. NO:9483892689



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP		
4	1/2 FDP of one week		
8	Full FDP of one week		
12	1 1 FDP		

Ouration of NPTEL course: 8 Weeks



NPTEL-AICTE Faculty Development Programme



(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

ARUN KUMAR M

for successfully completing the course

Innovation, Business Models and Entrepreneurship

with a consolidated score of 61 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Aug-Oct 2021)

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

All India Council for Technical Education

Roll No: NPTEL21MG63S43221890

The candidate has studied the a

To validate and check scores: http://example.com

Roll No:NPTEL21HS103S23221813

TO ARUN KUMAR M
NO. 647, 5TH MAIN, 12TH CROSS
MRCR LAYOUT, VIJAYANAGAR
BENGALURU
KARNATAKA - 560040
PH. NO :9483892689



No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP	
4	1 FDP of one week	
8	Full FDP of one week	
12	1 1 FDP	

Duration of NPTEL course: 8 Weeks



NPTEL-AICTE Faculty Development Programme



(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

ARUN KUMAR M

for successfully completing the course

Patent Search for Engineers and Lawyers

with a consolidated score of 60 %

Prof. Andrew Thangaraj NPTEL Coordinator

(Aug-Oct 2021)

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

Roll No: NPTEL21HS103S23221813

To validate and check scores: http://nptel.ac.in/noc

CERTIFICATION OF PUBLICATION



International Journal of Innovative Research in Science, Engineering and Technology

(A Monthly Peer Reviewed Journal)

Email: ijirset@gmail.com Website: www.ijirset.com

This is hereby Awarding this Certificate to

DR. ARUN KUMAR

Department of EEE, KS School of Engineering and Management, Bengalury, India

Published a paper entitled Non Invasive Device to Measure and Monitor Lung Capacity in IJIRSET, Volume 10, Issue 12, December 2021

e-ISSN: 2319-8753 **D-ISSN: 2347-6710**



Editor-in-Chie

Factor 7.569



| e-ISSN: 2319-8753, p-ISSN: 2347-6710| <u>www.ijirset.com</u> | Impact Factor: 7.569|

|| Volume 10, Issue 12, December 2021 ||

| DOI:10.15680/IJIRSET.2021.1012162 |

Annexure-05

Non Invasive Device to Measure and Monitor Lung Capacity

Dr. Shiyakumara Swamy.R¹, Dr. Arun Kumar², Shiya Kumar KS³, Chandrashekhar L⁴, Dinesh S⁵

Department of MTE. Acharya Institute of Technology, Bengaluru, India

Department of EEE. KS School of Engineering and Management, Bengaluru, India

Department of EEE. Acharya Institute of Technology, Bengaluru, India

Department of MTE. Acharya Institute of Technology, Bengaluru, India

Department of MTE. Acharya Institute of Technology, Bengaluru, India

ABSTRACT- In this current scenario during the pandemic like asthma, copd (chronic obstacle pulmonary disease)and the current viral disease like covid-19 has been growing rapidly across the world, this disease directly affect the lungs. During this scenario we use spirometer which measures the lung function to diagnose various respiratory illness by injecting the mouthpiece into our mouth which brings abdominal pain for patients, facial exacerbated by a mouth and stress incontinence for the patients [1]. The goal of our project is to design a low cost device based on pulmonary lung function analyzer by FEV/FVC ratio wrt non invasive method that the patients can take the test with less efforts where they need not put the mouth piece in their mouth and accurate results are obtained that are in agreement between the measurement result and actual value. In this device the flow meter is connected to BMP280 sensor, which detects the pressure with which we are blowing. After the data is taken from bmp pressure sensor, It is sent to Node MCU ESP8266 which is a wifimodule , built along with microcontroller unit that is interfaced with android app known as BLYNK(legacy) ,through the embedded C programming language. These values are sent via wifi module to the mobile app as mentioned in the block diagram (given below). Finally the result is obtained at Blynk app that displays your percentage of our lungs. This work in faster response and any number of test can be taken by not going to doctor, by using this device. This process of application was tested for several people as shown in the diagram, so this projectencourages easy and reassuring use and to design a low cost device that are used for routine respiratory health checkups.

KEYWORDS: Node MCU, BMP280 PressureSensor, Blynk(legacy)

LINTRODUCTION

This pandemic COVID-19 has made us realize that we not only have to take care of the external parts but also the internal organs too. One of the internal organs, the lungs play the most vital role and needs to be given special attention specially in these hard times. The main role of lungs is to bring in air from the atmosphere and pass oxygen into the bloodstream. From there, it circulates to the rest of the body. Help is required from structures outside of the lungs in order to breathe properly. To breathe, we use the muscle of the diaphragm, the intercostal muscles (between the ribs), the muscles of the abdomen, and sometimes even muscles in the neck. The diaphragm is a muscle that is domed at the top and sits below the lungs. It powers most of the work involved in breathing. As it contracts, it moves down, allowing more space in the chest cavity and increasing the lungs' capacity to expand. As the chest cavity volume increases, the pressure inside goes down, and air is sucked in through the nose or mouth and down into the lungs. As the diaphragm relaxes and returns to its resting position, the lung volume decreases because the pressure inside the chest cavity goes up, and the lungs expel the air. COVID-19 is a respiratory disease, one that especially reaches into your respiratory tract, which includes your lungs. COVID-19 can cause a range o f breathing problems, from mild to critical. Older adults and people who have other health conditions like heart disease, cancer, and diabetes may have more serious symptoms. A major issue with COVID-19 is with gas exchange in the alveolus. There is a very tight connection between the alveolar epithelium (type-1 cells) and the capillary. COVID-19 infects AT2 cells, kills them and floods the alveolus. In addition, there is evidence for micro thrombosis, which may block the vascular side. Clinically, this may appear as several conditions: severe bronchopneumonia, acute respiratory distress syndrome (ARDS) or sepsis. Pneumonia is inflammation and fluid in the lungs, making it difficult to breathe. Patients can experience shortness of breath, fevers and cough, which can be productive. More severe inflammation can lead to ARDS, which can require significant treatment including the use of oxygen therapies,

STAFF SELF APPRAISAL REPORT 2021-2022

KSSEM

Field	Data	SCORE	
Name	MANJULA B G		
Present Address, Mob. No., e-mail id.	#10, "Sri Vittala Chaithanya Nilaya, J.P.Nagar 7th Phase, 7th Main, Shreyas Colony, Bangalore: 560078 Mobile No: 8884123708 L-mail id: manjula.b.g/wkssem.edu.in		
Age and Date of Birth	Lorty-Six and 15-07-1976		
Qualification	M. Tech		
Designation and Department	Associate Professor, Department of Electrical and Electronics Engineering.		
Teaching Experience (After PG)	10 years 5 months		
Other Experience (If any)	 Lecturer in Reddy Jana Sangha Polytechnic for 4 Years and 1 Months. Trainee Engineer in Therelek Engineer's Pvt Ltd, Bangalore for 1 Year and 7 Months. Guest Lecturer in Guru Nanak Dev Government Polytechnic (Govt, of Delhi and NCR) New Delhi for 5 months. 		
List of Subjects Taught till date (use separate sheet if necessary)	Attached Annexure I		
Number of FDPs attended since joining service (Attach Separate List)	Attached Annexure II		
Subjects taught in the Assessment Year and Dercentage pass (Both Theory & Practicals) 10marks for each x Percentage) If Online Dlease indicate.	1.Power System Analysis 2 - 100% 2. Electrical Machine Design - 78.6 % 3. Power System Planning - 100 % 4. Power System Simulation Lab-100% 5. Basic Electrical Engineering Lab-100% 6. Power System Operation and Control- Waiting for results. 7. Basic Electrical Engineering- SEE not yet conducted. 8. Basic Electrical Engineering Lab- SEE not yet conducted.	40/40	
Details of UG Projects	L Design and Development of Power Generation	10/10	

(5 marks/ project	2 Design and Development of Substation Monitoring	
guided) Provide Titles	and Control System.	
HOD to endorse)		
Details of PG Projects Guided (5 marks/ project guided) Only for MBA / M.Tech. Provide	NA	0/10
Titles (HOD to Endorse)		
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	 Power System Analysis 2 - 100% Electrical Machine Design - 100 % Power System Planning - 100 % Power System Operation and Control- 100 % 	5/5
Student Feedback for Offline / Online classes. (Av. Percentage x 5 marks) Give details. HOD to verify.	$\frac{92.57 \times 5}{100} = 4.63$	4.63/5
Details of students mentored during current assessment year. (Furnish details)	Final year Six students Pre- Final year Four students	
Details of Participation in VTU Bodies (2 Marks) Furnish details and proofs.	NIL	0/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	 Practical Exams: Appointed as Examiner for Practical Exams and UG Project Viva -Voce Examiner. Conduction of Theory exams: RS in 2021-22 theory exams. Paper Setting: A theory Paper for VTU UG Courses. Evaluation: Electrical Machine Design. 	8/8
List of FDPs attended during the Assessment year. (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	 Participated in 3-day Faculty Development Programme on" Outcome Based Education" at K.S. Institute of Technology Bengaluru from 17th -19th March 2022. Participated in 5-day Faculty Development Programme on "Power and Energy Systems: Technical Progressions and Research Opportunities" from 19th to 24th July 2021 funded by New Gen IEDC, GST Government of India organised by Department of Electrical and Electronics Engineering, BNMIT, Bengaluru. 	10/10

		-
Financial Assistance received during current year for attending FDPs	NIL	
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	 Awarded (2 marks) Thesis Submitted and awaiting reports (1 mark) Thesis Preparation (2 Mark) Experimentation/Data Collection in completed (1 mark) Comprehensive viva voce completed (1 mark) Appeared for Course work exams (1 mark) Applied for registration formalities (1 mark) Identified Guide/Research Centre and preparing research Proposal (1mark.) Not thought of pursuing Ph.D. (zero) 	3/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	Manjula B G, Nikitha P, Sai Darshan G, Varshini K "Design and Development of Power Generation Model using Power Hump." in International Journal of All Research Education & Scientific Methods, (IJARESM), ISSN No: 2455-6211, Volume 10, Issue 7, July - 2022.	5/10
Seminars / Workshops / Conferences attended (5 Marks each) Data to be verified by HODs. [Attach Certificate Copies]	1. Participated in one week workshop on "Advanced Technologies in Electrical and Electronic Systems (ATEES-2022)" organized by department of Electrical and Electronics Engineering KLS Gogte Institute of Technology in association with IEEE Power and Energy student chapter and technically co-sponsored by IEEE North Karnataka Sub Section (NKSS) during 03 rd to 7 th January 2022. 2. Attended a online user awareness program on Springer Nature e resources jointly organised by Visvesvaraya Technological University Consortium and Springer Nature on 13 th December 2021.	10/10
Financial Assistance received during current year for attending such events.	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	NIL	0/5

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application 5 marks. Provide Details.		
Academic Programs organized and supported during current year. (Only FDP /Workshop /Seminar / Conference). Do not include Webinars.	NIL	0/5
Details of programs attended for skill development like MOOCs, MOODLES, COURSERA, NPTEL and others (Only programs >= 20 hours need to be considered.	NIL	0/5
Details of Utilization of NPTEL and other Online materials for augmenting own lectures. Provide proof for using this in the classroom. HOD to Verify.	 https://nptel.ac.in/courses/108/102/108102047/ https://www.youtube.com/watch?v=ohkJg8JxFPY https://nptel.ac.in/courses/108/101/108101040/ https://nptel.ac.in/courses/108/104/108104052/ 	5/5
Details of Project Proposal submitted during the current year. (At least one) Provide Details	Two final year UG Project were submitted for financial assistance in Visveswaraya Technological University for the academic year 2021 – 22	5/5
Details of Project Funds Received. (including KSCST & VTU financial assistance)	Project Proposal entitled Design and Development of Power Generation Model Using Power Humps has been sanctioned by KSCST for Rs.6000/-	5/5
Consultancy Revenue Generated	NIL	0/5
Details of Participation in cultural events during the current year	NOT APPLICABLE FOR CURRENT YEAR	
Additional Responsibilities in the Department/ College Example: Head, Coordinator, Accreditation etc.	 NAAC 1 Coordinator Alumni Coordinator News Letter Coordinator Amaragging Squad committee Member Project Coordinator Stock Verification Committee 	c)/o 10/10

(2marks for each responsibility)		
Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	Life member of Indian Society for Technical Education Membership No. LM94795	2/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	 Coordinated with students for department allotted events. Member disciplinary committee near the stage during Aarohana 2021-22. 	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the Responsibility and participation by the HOI.]	Tele-calling	05/10
	TOTAL	132.6/190

Date: 16 07 2022

anjula BS Signature of faculty

Comments from the HOD:

* Strong in has conventioned once of subjects

* Hethodological in har. work.

+ Reluctorer to accept new work.

Signature of the HOD

Comments of the Principal after the discussion:

Satisfacting performance. Pursing Signature of the Principal completed. Since in her effects Ph.D and to be

Annexure I
List of Subjects Handled from 2012-13 August to Till Date

Sl. No	Semester/Year	Class	Subject	Theory/Lab
1	111 /2012-13	EEE	Electrical and Electronic Measurements and Instrumentation Engineering	Theory
2	V /2012-13	EEE	DC and Synchronous Machines	Theory
3	V /2012-13	EEE	Transformers and Induction Machine Laboratory	Lab
4	VI/ 2012-13	EEE	Switch Gear and Protection	Theory
.5	1V /2012-13	EEE	Transformer and Induction motor	Theory
6	VI /2012-13	EEE	DC and Synchronous Machines	Lab
7	V /2013-14	EEE	DC and Synchronous Machines	Theory
8	VII /2013-14	EEE	Electrical Power Utilization	Theory
9	11 /2013-14	ECE	Basic Electrical Engineering.	Theory
10	VIII /2013-14	EEE	Power System Operation and Control	Theory
11	V1 /2013-14	EEE	DC and Synchronous Machines Lab	Lab
12,	III /2014-15	EEE	Analog Electronic Circuits	Theory
13	1 /2014-15	EEE	Basic Electrical Engineering.	Theory
14	V /2014-15	EEE	Transformers and Induction Machine	Lab
15	/V1 / 2014-15	EEE	Power System Analysis and Stability	Theory
16	VIII	EEE	Power System Operation and Control	Theory

	/2014-15			la 1 1
17	VI / 2014-15	EEE	DC and Synchronous Machines La	b Lat
18	V /2015-16	EEE	DC and Synchronous Machines	Theo
19	VII /2015-16	EEE	Industrial Drives and Applications	Theo
20	III /2015-16	EEE	Analog Electronics Lab	Lab
21	VI /2015-16	EEE	Digital Signal Processing	Theor
22	VIII /2015-16	EEE	Power System Operation and Contro	1 Theory
-23	VI /2015-16	EEE	Control System Lab	Lab
24	1 /2016-17	CSE	Basic Electrical Engineering.	Theory
25	V / 2016-17	EEE	DC and Synchronous Machines	Theory
26	V / 2016-17	EEE	Transformers and Induction Machines Lab	Lab
27	II /2016-17	CIVIL	Basic Electrical Engineering.	Theory
28	VIII /2016-17	EEE	Power System Operation and Control	Theory
29	VI /2016-17	EEE	DC and Synchronous Machines Lab	Lab
0	2017-18	CSE	Basic Electrical Engineering.	Theory
1	VII /2017-18	EEE	Electrical Power Utilization	Theory
2	III / 2017-18	EEE	Electrical Machines Lab 1	Lab
	V /2017-18	EEE	Transformers and Induction Machines Lab (parallel course)	Lab
	VIII /2017-18	EEE	Power System Operation and Control	Theory

35	1I /2017-18	ECE	Basic Electrical Engineering.	Theory
36	1V. /2017-18	EEE	OP AMP and LIC Lab	Lab
37	1/ 2018-19	CSE	Basic Electrical Engineering.	Theory
38	VII 2018-19	EEE	Utilization of Electrical Power	Theory
39	111 / 2018-19	EEE	Electrical Machines Lab 1	Lab
40	VII /2018-19	EEE	Electrical Power Utilization (Exit scheme)	Theory
41	1/ 2018-19	CSE	Basic Electrical Engineering.	Lab
42	11/ 2018-19	ECE	Basic Electrical Engineering.	Theory
43	VIII/ 2018-19	EEE	Power System Operation and Control (15EE81)	Theory
44	VIII/ 2018-19	EEE	Power System Operation and Control (10EE82)	Theory
45	1V/ 2018-19	EEE	Electrical Machines Lab II	Lab
46	1/ 2019-20	CSE	Basic Electrical engineering (18ELE13)	Theory
47	11I/ 2019-20	EEE	Transformers and Generators (18EE33)	Theory
48	III/ 2019-20	EEE	Electrical Machines Lab 1	Lab
49	IV/ 2019-20	EEE	Electric Motors (18EE44) (online)	Theory
50	VIII/ 2019-20	EEE	Power System Operation & Control (15EE81)	Theory
51	II/ 2019-20	ECE	Basic Electrical engineering (18ELE23) (online)	Theory
52	IV/ 2019-20	EEE	Electrical Machines Lab II	Lab

53	VII 2020-21	EEE	Power System Planning (17EE744)	Theory
54	1/ 2020-21	CSE	Basic Electrical engineering (18ELE13)	Theory
55	111/ 2020-21	EEE	Electrical Machines Lab 1	Lab
56	1/ 2020-21	CSE	Basic Electrical Engineering.	Lab
57	VIII/ 2019-20	EEE	Power System Operation & Control (15EE81)	Theory
58	2020-21 IV	EEE	Transmission and Distribution (18EE43)	Theory
59	2020-21	EEE	Electrical Machines Lab II	Lab
60	11/ 2020-21	ME, CIVIL	Basic Electrical Engineering.	
61	V/ 2021-22	EEE	Electrical Machines Design	Lab
62	VII/ 2021-22	EEE		Theory
63	VII/ 2021-22	EEE	Power System Analysis-2 (18EE71)	Theory
64	VII/ 2021-22	EEE	Power System Planning (17EE744)	Theory
65	VIII/ 2021-22	EEE	Power System Simulation Lab Power System Operation & Control (18EE81)	Lab
66	II/ 2021-22	ECE	Basic Electrical	Theory
67	11/ 2021-22	ECE/AI&DS	Basic Flectrical	Theory
			(21ELE27). Engineering	Lab

ANNEXURE II

FDP, Conferences, Workshops & Seminars Attended and Organized

- Participated in 3-day Faculty Development Programme on" Outcome Based Education" at K.S. Institute of Technology Bengaluru from 17th -19th March 2022.
- Participated in one week workshop on "Advanced Technologies in Electrical and Electronic Systems (ATEES-2022)" organized by department of Electrical and Electronics Engineering KLS Gogte Institute of Technology in association with IEEE Power and Energy student chapter and technically co-sponsored by IEEE North Karnataka Sub Section (NKSS) during 03rd to 7 th January 2022.
- Attended a online user awareness program on Springer Nature e resources jointly organised by Visvesvaraya Technological University Consortium and Springer Nature on 13th December 2021.
- Participated in 5-day Faculty Development Programme on "Power and Energy Systems: Technical Progressions and Research Opportunities" from 19th to 24th July 2021 funded by New Gen IEDC, GST Government of India organised by Department of Electrical and Electronics Engineering, BNMIT, Bengaluru.
- Participated in 5-day Faculty Development Programme (Online) on "Recent Trends in Power Systems" from 05/07/2021 to 09/07/2021 organised by Sapthagiri College of Engineering Bengaluru.
- Participated and completed successfully AICTE Training and Learning (ATAL)
 Academy Online FDP on "Smart Cities" from 2021-1-18 to 2021-1-22 at Dayananda
 Sagar Academy of Technology and Management.
- Attended webinar on "Scientific Writing for journals" by Springer Nature in collaboration with Visvesvaraya Technological University Consortium on 20th September 2020.
- Participated in the Webinar Programme on "Connected Car-A Vehicle Technology" conducted by Department of Electrical and Electronics Engineering, SJBIT, Bengaluru on 6-6-2020
- Participated in the Webinar on "Internet of Things for Energy Efficient Buildings" organized by National Productivity Council on 27th June 2020

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- Participated in National Level Webinar on "Control Aspects of Grid Connected Photovoltaic Systems" dated 7th July 2020 organized by Department of Electrical and Electronics Engineering, Sir M Visvesvaraya Institute of Technology Bengaluru
- "Employability Post COVID Era: Expectation of Industry Vs Education System's Preparedness" organized by ASSOCHAM INDIA on 10th July 2020
- National level FDP on "Research Initiatives in Renewable Energy Systems" conducted by the Department of Electrical and Electronics Engineering on 21st -25th July 2020.
- Three days FDP on "EPLAN for Electrical Engineers" organized by the Department of Electrical and Electronics Engineering Nitte Meenakshi Institute of Technology from 22nd to 24th January 2020
- Attended One day Workshop on "New Approach to the Revised Assessment and Accreditation of NAAC" on 4th January 2019 held at Global Academy of Technology, Bangalore.

- Participated in One Week Workshop on "Research Methodology "held between 30th July to 4th August 2018 at VTU Human Resource Development Centre for Post Graduate Studies, Muddenahalli, Chikkaballapur District.
- Participated in TEQIP -III Sponsored One Week Workshop on 'Recent Trends in Power System Operation and Control" held during 11th to 15th June 2018 in the National Institute of Technology Surathkal Mangalore.
- Participated in Two days Faculty Development Program on Research Proposal Preparation towards Ph.D. Admission Programmes" held on 24th and 25th June 2016 at KSSEM Bangalore.
- Participated in Two days workshop on "Review of Latest Trends in Transformer Design, Manufacture and CAED" held on 28th and 29th March 2016 at KSSEM Bangalore.
- Participated in the FDP on "Outcome Based Education and Bloom's Taxonomy" held during 4th and 5th December 2015 at KSSEM Bangalore.
- Participated in the FDP on "Training the Trainer Workshop on Intellectual Property Rights Significance for Academia" held at Bangalore on 31st July 2015
- Organized one day national conference on "Horizons in Power Engineering "(NCHPE-15) by the department of Electrical and Electronics Engineering on 29th April 2015 held at KSSEM Bangalore.
- Participated in the "Young Researchers Meet" organized by IEEE PES Bangalore Chapter on 6th December 2014 at Bangalore
- Participated in the Two-day workshop on "Lab View" conducted by Cranes Software International Ltd and National Instruments on 4th and 5th September 2014
- Participated in one day workshop on "Research Methodology" held at KSSEM on January 30,2014
- Attended three days Training Program on MI-Power Software held at KSSEM Bangalore from 10th to 12th September 2013.
- Organized three Days VTU-VGST Sponsored FDP on "Recent Advances in Nano Devices and Sensor Technology "held at KSSEM Bangalore from 8th to 11th July 2013.
- Attended Three-day workshop on "National Level Workshop on Computer Aided Electrical Drawing" held at HKBK College of Engineering, Bangalore from 7th to 9th January 2013.
- Participated in Two days workshop on "Recent Trends in Communication Computing and Signal Processing" held at Guru Tegh Bahadur Institute of Technology, New Delhi on March 30-31, 2012.
- Participated in one day workshop on "Recent Trend and Advances in Power Electronics and Drives" held at Guru Tegh Bahadur Institute of Technology, New Delhi on March 17,2012.



Kammavari Sangham(R)1952

K. S. INSTITUTE OF TECHNOLOGY

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



3 DAYS FACULTY DEVELOPMENT PROGRAM
on
"OUTCOME BASED EDUCATION"





Certificate of Participation



This is to certify that Ms MANJULA BG , KSSEM

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

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

Dr. P. N Sudha

Chief Coordinator NBA rof. & Head ECE Department 5.00

Dr. S. Bhaskar Head - Office of PG Studies Kumaraguru College of Technology Dr. Dilip Kumar K.

Principal & Director K.S.I.T.

Dr. K. V. A. Balaji CEO K. S. Group of Institutions



B. N. M. Institute of Technology



An Autonomous Institution under VTU. Approved by AICTE. 27" Cross, 12" Main, Banashankari 2" Stage, Bengaluru - 560 070, INDIA Ph: 91-80-26711780/81/82 E-mail: principal@bannit.in, www.bnmit.org

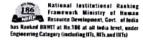
Certificate

This is to certify that Dr./Mr./Ms./Mrs.	MANJULA BG		
K S School of Engineering an	d Management has participated		
in Faculty Development Program on "Power a	nd Energy Systems: Technical Progressions and		
Research Opportunities", funded by NewGen IEDC, DST, Govt. of India, organized by Department			
of Electrical & Electronics Engineering, BNMIT Bengaluru from 19th to 24th July 2021.			

Dr. R.V. Parimala HOD EEE Dr. Krishnamurthy G. N.

















SPRINGER NATURE

CHARLE CAME OF PARTICIPATION

Online user awareness program on Springer Nature e-resources

jointly organized by

Visvesvaraya Technological University Consortium & Springer Nature.

This is to certify that

Prof./Dr./Mr./Ms. Manjula B G

has successfully participated in the online user awareness program on Springer Nature e - resources organized by VTU Consortium and Springer Nature on 13th December, 2021.

- Crumita

Dr. K.R. Mulla Librarian and Head, VTU

Mr. Vikash Kumar

Director - Sales, Springer Nature



KIS Gogle Institute of Technology

(An Autonomous Institution under Visvesvaraya Technological University "Jnana Ganga", Udyambag, Belagavi- 590008)







One week International Workshop (ATEES-2022)

CERTIFICATE OF PARTICIPATION

This is to certify that Manjula B G of K S School of Engineering and Management, Bengaluru has actively participated in the one week workshop on "Advanced Technologies in Electrical and Electronic Systems (ATEES-2022)" organized by department of Electrical and Electronics Engineering in association with IEEE Power and Energy student chapter and technically co-sponsored by IEEE North Karnataka Sub Section (NKSS) during 03rd to 7th January 2022.

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Prof.S.N.Dodamani Dr.R.B.Magadum Coordinators Dr.D.B.Kulkarni Convener

Dr.J.K.Kittur Principal



Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka) Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

Email: office.kscst@iisc.ac.in, office@kscst.org in • Website: www.kscst.iisc.ernet.in, www.kscst.org in

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

The Principal, K.S. School of Engineering and Management # 15, Mallasandra, off. Kanakapura Road Bengaluru - 560 062

Dear Sir/Madam,

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Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3533

DESIGN AND DEVELOPMENT OF POWER GENERATION MODEL Ref: Project Proposal entitled

USING POWER HUMPS

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Ms. NIKITHA P		ELECTRICAL AND ELECTRONICS	
	Mr. SAI DARSHAN G	Department	ELECTRICAL AND ELECTRONICS ENGINEERING	
	Ms. VARSHINI K			
		Sanctioned		
Guide(s)	Mrs. MANJULA B.G	Amount	6,000.00	
		(in Rs.)		

Instructions:

- a) The project should be performed based on the objectives of the proposal submitted.
- b) Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- c) Please quote your project reference number printed above in all your future correspondences.
- d) After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link https://forms.gle/YMn9K7XETu96i8KbA. The synopsis should include following:
 - 1) Project Reference Number
 - Title of the project
 - 3) Name of the College & Department
 - Name of the students & Guide(s)
 - 5) Keywords
 - 6) Introduction / background (with specific reference to the project, work done earlier, etc) about 20 lines
 - Objectives (about 10 lines)

- 8) Methodology (about 20 lines on materials, methods, details of work carried out, including
- 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
- 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
- f) The sanctioned amount will be transferred by NEFT to the bank account provided by the
- g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(s) shall be uploaded in the following Google Forms Link https://forms.gle/PciAaAVisn6bn8AM7. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,

H. Iken 1 (H. Hemanth Kumar)

Copy to:

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- 1) The HoD ELECTRICAL AND ELECTRONICS ENGINEERING K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU
- 2) Mrs. MANJULA B.G ELECTRICAL AND ELECTRONICS ENGINEERING K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU
- THE ACCOUNTS OFFICER KSCST, BENGALURU



ವಿಶ್ವೇಕೃಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ಲ್ಲ ಕರ್ನಾಟಕ ಸರ್ಕೀರದಿಂದ ಸ್ವಾಪಿಕವಾದ ರಾಷ್ಟ್ರ ಇತ್ತವಿದ್ಯಾಲಯ 'ಆರಾಜ-ಆಕರಂ ಕರ್ನಾಟಕ, ಪರ್ಕತೆ

Visvesvaraya Fechnological University

State University of Government + Karnataka Established as per the VTC (6.1, 1994)

lnana Sang ana Tielagavi-590018 Karnataka, India

Dr. B. E. Rangaswamy _{Ph.D.} Registrar (Evaluation) Phone: (0831) 2498131 Fax: (0831) 3498184

No. VIU/hxam/Pn D.

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Date: 0.12

1,5 DEC LUZI

Coursework Completion Certificate

SN: 1KG18PEE01

Name MANJULA B.C.

Subject Code	Subject Title	Grade	Exam
:6EPS154	Power System Voltage Stability	С	FEB-2020
SESE21	Power System Operation	С	APRIL-2019
6ESE24	Power System Planning	С	NOV-20
.5°HDRM	Research methodology	С	APRIL-2019

Grade Table

Grade S A B C F

Sicrks 90 To 100 80 To 89 70 To 79 60 " 109 10 59

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Registrar (Evaluation)

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Design and Development of Power Generation Model using Power Humps

Manjula BG1, Nikitha P2, Sai Darshan G1, Varshini K4

Associate Professor, Electrical & Electronics Engineering, K.A.S.E.M. Bengaluru, India Student, Electrical & Electronics agineering, K.S.S.E.M., Benegduru, Karnataka State, India

- ling Author: Mrs. Manjula BG Corre-

ABSTRACT

Energy is the primary need for survival of all organisms in the universe. But in this fast moving world, is increasing day by day and the conventional energy sources are depleting. The extensive usage of resulted in an energy crisis over few years. Therefore to overcome this problem we need to energy the techniques of optimal utilization of conventional sources for conservation of energy. This project imple includes now to utilize the energy which is wasted when the vehicles passes over a power hump. Lots of energy is generated when vehicle passes over it. We can trap the energy generated and produce power by using the power wer generating unit. The kinetic energy of the moving vehicles can be converted into mechanical shaft through rack and pinion mechanism. Then, this machanical energy will be converted to hump energy using generator which will be saved with the use of a bartery. The energy we save during the energy as be used in the night time for lighting street lights. Therefore, by using this arrangement we can electr energy which can be used for the fulfillment of future demands. This project harvests energy from day E ip by making gear arrangement and using electronic gadgets. Large amount of electricity can be Save 1 eaving lot of money. The principle involved is potential energy to electrical energy conversion. There powe. a generate power by converting the potential energy generated by vehicle going up on a power hump gener ergy. Whenever the vehicle is adowed to pass over the dome it gets pressed downwards such that is a 50 are compressed and the rack which is attached to the bottom of the dome moves downward in into 1 a motion of rack into rotary motion of gears but the two gears cotate in opposite direction connected the s reculto the

Rack and pinion, Power Hump, Dynamo, Chain drive, Flywheel. Keyw

INTRODUCTION

and in energy adds to the need for identifying non-conventional resources of energy. An energy crisis is eneck (or price rise) in the supply of energy resources to an economy. any

raine gas dispute and the Russia-itelarus energy dispute have been mostly resolved before entering a sis stage. Market failure is possible when monopoly manipulation of markets occurs. A crisis can develop relat actions like union organized arrikes and government embagoes. The cause may be agoing overinfrastructure and sometimes bottlenecks at oil refineries and pc t facilities restrict fuel supply

may emerge during cold winters. The availability of regular conventional fossil fuels will be the main ower generation, but there is a fear that they will get exhausted eventually by the next few decades. have to investigate some approximate, alternative, new sourc, , for the power generation, which is not every few years. The exiting to a for today is the pollution 4, suffers all the living organisms of all the land, in aqua and in air. Power stations and automobiles and the major pollution producing places. have to investigate other types of renewable sources, which produce electricity without using any sil fuels, which is not producing any harmful products. The latest technology which is used to generate in renewable energy "POWER 1... IMP",

LITERATURE REVIEW

dina Prabu et al has briefed that —hen vehicle is in motion it parduces various forms of energy like, due 1116 een vehicles wheel and road i.e. rough surface heat energy is a oduced, also when vehicle is travelling a change in wind velocity. The principle involved is potential energy to electrical energy conversion. 31.0



IJARESM

ISSN: 2455-6211, New Del ... India

International Journal of All Research Education & Scientific Methods

In IS 2 & HITC Certified

er-Reviewed Multi- iplinary Journal Journal 115: : 7647

Certificate of Publication

Manjula B G

Associate Professor, Electrical & Electronics Engineering, K.S.S.E.M, Bengaluru, India

TILLE OF PAPER

Design and Development of Power Generation Model

using Power Humps

has been published in

IJARESM, Impact Factor: 7.429, Volume 10 Issue 7, July- 2022

Paper Id: LJ-130722059

Certificate No.: 177221012

Date: 17-07-2022



Website: www.ijaresni. http://www.ijaresnichemil.com



Authorized Signatory



K. S. School of Engineering & Management, Bangalore - 560109

Department of Electrical & Eletronics Engineering Staff Feedback (2021-22) Odd Sem

Fifth Sem

Faculty Name: Mrs. Manjula B G

SI, No.	1. Effective Planning & organisation	2. Punctuality / Class time Utilization	3. Ability to teach /explain / effective use of board	4. Interaction / Motivating students	5. Subject knowledge	6. Presentation of the subject / communication	7. Linking subject with practical application	8. Syllabus covearage	9. Evaluation of test / counselling	10. Attitude towards students
1	5	5	5	5	5	5	5	5	5	5
2	5	4	5	4	5	4	5	4	5	4
3	5	5	4	4	5	4	4	4	4	4
Col. Total	15	14	14	13	15	13	14	13	14	13
Col. Avg.	5.00		4.67	4.33	5.00	4.33	4.67	4.33	4.67	4.33
Over all %	92.00				5.00	4.55	4.07	4,55		

Associate Professor Head of the Department Department of Electrical & Electronics Engineering K S School of Engineering and Management Bengaluru-560 109

K. S. School of Engineering & Management, Bangalore - 560109 Department of Electrical & Eletronics Engineering

Staff Feedback (2021-22) Odd Sem

Seventh Sem

Faculty Name: Mrs. Manjula B G

Sl. No.	1. Effective Planning & organisation	2. Punctuality / Chss time Utilization	3. Ability to teach /explain / effective use of board	4. Interaction / Motivating students	5. Subject knowledge	Presentation of the subject /	7. Linking subject with practical application	Syllabus covearuge exam point of view	Evaluation of test / counselling	10. Attitude towards students
1	5	5	5	-		6.		æ `	6	Ξ
2	5	5	5	5	5	5	5	5	5	5
3	4	5	4	5	5	5	5	5	5	5
4	4	5	4	4	4	4	5	5	4	5
5	5	5		3	4	5	5	5	3	4
6	5	5	5	5	5	5	5	5	5	5
7	4		5	5	5	5	5	5	5	5
		4	4	4	4	4	4	4	4	4
Col. Total	32		32	31	32	33	34	34	31	33
Col. Avg.	4.571429	4.857143	4.571429	4.428571	4.571429	4.714286	4.857143	4.857143	4.428571	
Over all %	93.14									

Head of Department

Associate Professor

Head of the Department Department of Electrical & Electronics Engineering
KS School of Engineering and Management
Bengaluru-560 109

STAFF SELF APPRAISAL REPORT

2021-2022

KSSEM

Field	Data	SCORE				
Name	HEMAPRIYA M					
Present Address, Mob.No., e- mail id.	#007, Elegant Paradise, 18 th main, Narayananagara, Doddakallasandra, Bangalore. 560061 9900519825 hemapriya@kssem.edu.in					
Age and Date of Birth	42years, 24-08-1979					
Qualification	B.E; M.Tech					
Designation and Department	Assistant Professor Electrical and Electronics Engineering					
Teaching Experience (After PG)	8 years					
Other Experience(If any)	 9 Months as PCB designer using CAD, 1 semester as Guest Faculty teaching TIM for Evening College students in BMS college of Engineering 					
List of Subjects Taught till date	At KSSEM:					
(use separate sheet if necessary)	 Digital System Design Computer Aided Electrical Drawing Industrial Drives and Application Electrical machine Design Electric Motors Signals and System Power System Protection 					
Number of FDPs attended since	6					
joining service (Attach Separate List)	Annexure 1					
*Subjects taught in the	Odd Semester					
Assessment Year and percentage pass (Both Theory & Practicals)	Theory 1.Signals and Systems: 75% 2.Power System Protection: 100%	37.5/40				
(10marks for each x Percentage) If Online please indicate.	Lab 3.Microcontroller: 100% 4.Basic Electrical Engineering Lab: 100%					

	Even Semester Theory 1.CAED: Results Awaiting 2.Industrial Drives and Applications: Results Awaiting Lab 3.Control System Laboratory: Results	
	Awaiting 4.Basic Electrical Engineering Lab: Results Awaiting	
Details of UG Projects Guided (5 marks/ project guided) Provide Titles (HOD to endorse)	1.Design and Development of IOT Surveillance System 2	5/10
Details of PG Projects Guided (5 marks/ project guided) Only for MBA/M.Tech. Provide Titles (HOD to Endorse)	-	/10
Percentage of classes held (No. of classes taken/no. of classes allocated x 5) Give details. HOD to Endorse.	1. Odd Semester Theory 1. Signals and Systems: 100% 2. Power System Protection: 100%	5/5
W	Theory 1.CAED: 100% 2.Industrial Drives and Applications: 100%	
Student Feedback for Offline / Online classes. (Av.Percentage x 5 marks) Give details. HOD to verify.	1.Signals and Systems: 96% 2.Power System Protection: 97.14%	4.83/5

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

Details of students mentored during current assessment year.	5 [™] Semester Students: 10	
(Furnish details) Details of Participation in <u>VTU</u> Bodies (2 Marks) Furnish details and proofs.	-	/2
Details on Examination related Activity (2marks each) Marks only for external responsibility.)	1. Practical Exams - 2m 2. Conduction of Theory exams -2m 3. Paper Setting 4. Evaluation -2m	6/8
List of FDPs attended during the Assessment year (5 marks each) (Attach Certificate copies) Provide Title, dates etc. HODs to verify	Recent Trends in Power Systems Power and Energy Systems: Technical Progressions and Research Opportunities	10/10
Financial Assistance received during current year for attending FDPs	-	
Status of Ph.D. [Attach proof for each stage and for every claim] Ph.D. Completed – 10 marks.	 Awarded (2 marks) Thesis Submitted and awaiting reports (1 mark) Thesis Preparation (2 Mark) Experimentation/Data Collection in completed (1 mark) Comprehensive viva voce completed (1 mark) Appeared for Course work exams (1 mark) Applied for registration formalities (1 mark) Identified Guide/Research Centre and preparing research Proposal (1 mark.) Not thought of pursuing Ph.D. (zero) 	/10
Research Publications: (5 marks each) Provide Full Details. HODs to verify. [Attach copies of Title Page]	1. Design and Development of IOT Surveillance System	/10
Seminars / Workshops / Conferences attended (5 Marks	1.	/10

each) Data to be verified by	2.	
HODs. [Attach Certificate Copies]		
Financial Assistance received	Rs.	
during current year for attending		
such events.		-
Registered as Research Guide	Yes / No	
(Reasons for not registering)	If ' Yes ' furnish details.	/-
Research Scholars registered	Yes / No	/5
with details	If Yes, 5 marks	-
Details of Patents Applied for (If	-	/5
any) One application 5 marks		
Provide Details.		
Academic Programs organized	"Skill Enhancement and Electrical Safety"	
and supported during current		/5
year.(Only FDP /Workshop		
/Seminar / Conference) . Do not		
include Webinars.		
Details of programs attended for		
skill development like MOOCs,		/5
MOODLES, COURSERA, NPTEL		/3
and others (Only programs >= 20		
hours need to be considered.		9
Details of Utilization of NPTEL	CAED	
and other Online materials for	CALD	
augmenting own lectures.		5/5
Provide proof for using this in		
the classroom. HOD to Verify.		
Details of Project Proposal	Design and Development of IOT	
submitted during the current	Surveillance System	5/5
year. (At least one) Provide	,	
Details	*	
Details of Project Funds	Rs	
Received. (including KSCST &		/5
VTU financial assistance)		
Consultancy Revenue Generated	Rs	
Details of Participation in		/5
cultural events during the	NOT APPLICABLE FOR CURRENT YEAR	
current year		
Additional Responsibilities in the	1) NAAC Criteria- 2&4 Department	
Department/ College	Coordinator	
Example: Head, Coordinator,		41
Accreditation etc.(2marks for	2) Department Placement Coordinator	6/10
each responsibility)	1727	
	3) Department DELTRONE Coordinator	

Details of Live Membership for Professional Bodies (IEEE CSI SEA ISTE) (2marks for first membership & 3 marks for second membership)	-	/5
Contribution to Cultural / Sports Events (Furnish Details) [Marks to be granulated based on the responsibility and participation by the HOI.]	Department Cultural Coordinator: Organized Quiz and Pick & Speak events in AAROHANA 2021-2022 Disciplinary committee	5/5
Contribution towards Branding, Admissions, etc [Marks to be granulated based on the responsibility and participation by the HOI.]	 Tele calling Help Desk 	<i>0</i> /10
	TOTAL	101.3/190

Date: 16 7 2022

Comments from the HOD:

. * Should able to adjust to strengel condition * Eason to leave new subject

Signature of the HOD

Comments of the Principal after the discussion:

Jo take up Ph. D. seriously. To enrole for Unline Certification courses. Can improve.

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109 DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING SESSION: 2021-22

Annexure 1

Sl.No	TITLE	ORGANISED BY	DATE(FROM-TO)	NO. OF DAYS
1	Three Days National Level Online FDP on "Signal Processing Applications in Biomedical Engineering"	Department of Electrical and Electronics Engineering, Sir MVIT Bengaluru	23rd to 25th June 2020	3
2	National Level Five Days Faculty Development Program on " Building New Dimensions Towards Faculty Empowerment"	Department of Electrical and Electronics Engineering (Accredited by NBA) and R&D Center,TCE,Gadag, in association With Shanthala Power Limited, Hubli	27th to 31st July, 2020.	5
3	Power Electronic Applications in Electric Vehicles and Smart Grids	Department Of Electrical And Electronics Engineering BMS Institute Of Technology And Management	12th April to 19th April, 2021.	5
4	Power and Energy Systems: Technical Progressions and Research Opportunities	Department Of Electrical And Electronics Engineering BNM Institute Of Technology	19th July to 24th July, 2021.	5
5	Effective Utilization of VTU subscribed e- Resources Anywhere, Anytime, Any Device Using KSSEM Digital Library Powered by Knimbus	Department of library KSSEM	23rd August, 2021	1
6	Recent Trends in Power Systems	Department Of Electrical And Electronics Engineering Sapthagiri College Of Engineering	5th July to 9th July, 2021.	5



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi) 14/5, Hesaraghatta Main Road, Chikkasandra, Bengaluru-560057. (An ISO 9001:2015 and 14001:2015 certified Institution) Accredited by NAAC with "A" Grade

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PARTICIPATION CERTIFICATE

This is to certify that Hemapriya M, Faculty, Dept. of Electrical and Electronics Engineering, from KSSEM, Bangalore has participated in 5-day Faculty Development Programme (Online) on "Recent Trends in Power Systems" from 05/07/2021 to 09/07/2021.

P. Ruk-ada

FDP Coordinator

Bom

HOD, Dept. of EEE

PRINCIPAL



B. N. M. Institute of Technology



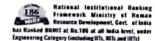
An Autonomous Institution under VTU. Approved by AICTE. 27° Cross, 12° Main, Banashankari 2° Stage, Bengaluru - 560 070, INDIA Ph: 91-80-26711780/81/82 E-mail: principal@bnmit.in, www.bnmit.org

Certificate

This is to certify that Dr./Mr./Ms./Mrs.	HEMAPRIYA M
KS School of Engineering and N	Annagement has participated
in Faculty Development Program on "Power and	Energy Systems: Technical Progressions and
Research Opportunities", funded by NewGen IEDC	
of Electrical & Electronics Engineering, BNMIT Beng	

Dr. R.V. Parimala HOD EEE Dr. Krishnanurthy G. N.

Dr. S. Y. Kulkami Additional Director Prof. T. J. Rama Murthy













TO COLLEGE OF SELECTIONS AND MANAGEMENT



CERRIFICATE OF ADDRECIATION



Mrs. Howard . Actions Processed

OF ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT HAS ACTIVELY PARTICIPATED IN THE PROGRAM
"SKILL ENHANCEMENT AND ELECTRICAL SAFETY".

AT GOVERNMENT SCHOOL, RAMANAGARA VILLAGE DURING 28TH SEP - 08TH OCT 2021

HEADMASTER GOVT.SCHOOL
RAMANAGARA

PRINCIPAL KSSEM COLLGE



K. S. School of Engineering & Management, Bangalore - 560109

Department of Electrical & Eletronics Engineering Staff Feedback (2021-22) Odd Sem

Fifth Sem

Faculty Name: Mrs. Hemapriya M

acuity ,vains						- 0				
\$1. No.	I. Effective Planning & Organisation	2. Punctuality / Class time Utilization	3. Ability to teach explain / effective use of board	4. Interaction / Motivating students	5. Subject knowledge	6. Presentation of the subject / communication	7. Linking subject with practical application	8. Syllabus covearage / exam point of view	9. Evaluation of test	10. Attitude towards students
1	5	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5	5
2	5	5	5	5	4	4	4	4	4	4
Sol Total	-	15	15	15	14	14	14	14	14	14
Col. Total	15					4.67	4.67	4.67	4.67	4.67
Col. Avg.	5.00	5.00	5.00	5.00	4.67	4.67	4.07	4.07	4.07	4.07
Over all %	96.00									

Head of Department

Te. Parat

Principal

Associate Professor Head of the Department Department of Electrical & Electronics Engineering K S School of Engineering and Management
Bengaluru-560 109



K. S. School of Engineering & Management, Bangalore - 560109

Department of Electrical & Eletronics Engineering Staff Feedback (2021-22) Odd Sem

Seventh Sem

Faculty Name: Mrs. Hemapriya M

Sl. No.	1. Effective Planning & organisation	2. Punctuality / Class time Utilization	3. Ability to teach /explain / effective use of board	4. Interaction / Motivating students	5. Subject knowledge	6. Presentation of the subject / v communication	7. Linking subject with practical application	8. Syllabus covearage	9. Evaluation of test / counselling	10. Attitude towards students
1	5	5	5	5	5	5	5	5	5	5
2	5	4	5	5	5	5	5	5	5	5
3	4	4	4	5	5	4	5	4	4	5
4	5	4	5	5	4	5	5	4	5	5
5	5	5	5	5	5	5	5	5	5	5
6	5	5	5	5	5	5	5	5	5	5
7	5	5	5	5	5	5	5	5	5	5
Col. Total	34	32	34	35	34	34	35	33	34	35
Col. Avg.	4.857143	4.571429	4.857143	5	4.857143	4.857143	5	4.714286	4.857143	5
Over all %	97.14									

Head of Department

Principal

Te. Para

Associate Professor Head of the Department Department of Electrical & Electronics Engineering
K S School of Engineering and Management
Bengaluru-560 109



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)

(To scan this page and enclose in the project proposal)

This is to certify that 1) Mr. Jayawanth B, 2) Ms. Sushma Udupa K S are bonafide student(s) of Department of Electrical and Electronics, in the degree program of our institution. If the project proposal submitted by these students under the 45th 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 to KSCST.

(Name & Signature of Project

Guide with Seal)

Email id:

hemapriya@kssem.edu.in

Contact No .: 9900519825

(Signature of HOD with Seal)

Email id:

hod.ecc@kssem.edu.in

Contact No.: 9183892689

Associate Professor Head of the Department Department of Electrical & Electronics Engineering K S School of Engineering and Management Bengaluru-560 109

(Signature of the Principal with Scal)

Email ld:

principal@kssem.edu.in

Contact No.: 9900633688