



**JSS Mahavidyapeetha**  
**JSS Science and Technology University**  
**Sri Jayachamarajendra College of Engineering, Mysuru – 570 006**  
**(For annual increment / promotion / confirmation)**  
**SELF APPRAISAL FORM (TEACHING STAFF)**  
**(To be filled by the Employee)**

1.	NAME	Mr. B.P Shivakumar																																																																																																	
2.	DEPARTMENT	Environmental Engineering																																																																																																	
3.	DESIGNATION	Assistant Professor																																																																																																	
4.	DATE OF JOINING	Sep 7 <sup>th</sup> , 2015																																																																																																	
5.	DATE OF BIRTH	Nov12 <sup>th</sup> , 1980																																																																																																	
6.	EDUCATIONAL QUALIFICATION	B.E., M.Tech.																																																																																																	
7.	<b>COURSES TAUGHT DURING THE YEAR</b>																																																																																																		
<table border="1"><thead><tr><th colspan="5">COURSES TAUGHT DURING THE YEAR</th></tr><tr><th>YEAR</th><th>ODD / EVEN</th><th>U.G / P.G Course</th><th>Subject Code</th><th>Subject Title</th></tr></thead><tbody><tr><td rowspan="6">2015 - 2016</td><td rowspan="3">ODD</td><td rowspan="2">U.G</td><td>EV 58 L</td><td>Environmental Process Laboratory – I</td></tr><tr><td>EV 75 L</td><td>Atmospheric Measurement Lab (Air and Noise) Lab</td></tr><tr><td>P.G</td><td>EVH 130</td><td>Design of Water Treatment Processes and Distribution System</td></tr><tr><td rowspan="3">Even</td><td rowspan="2">U.G</td><td>EV 440</td><td>Geology and Geotechnical Engineering</td></tr><tr><td>EV 47 L</td><td>Environmental Fluid Mechanics Lab</td></tr><tr><td>P.G</td><td>EVH 251</td><td>Water Recovery, Reuse and Recycle Technology (Elective IV)</td></tr><tr><td rowspan="8">2016 - 2017</td><td rowspan="4">ODD</td><td rowspan="4">U.G</td><td>EV 330</td><td>Environmental Fluid Mechanics - I</td></tr><tr><td>EV 730</td><td>Environmental Engineering Management Practices</td></tr><tr><td>EV 57 D</td><td>Design &amp; Drawing of Environmental Systems – I</td></tr><tr><td>EV 58 L</td><td>Environmental Process Laboratory – I</td></tr><tr><td rowspan="4">Even</td><td rowspan="4">U.G</td><td>EV 610</td><td>Estimation, Specifications and Financial Aspects</td></tr><tr><td>EV 663</td><td>Non Point Sources - Pollution and Management (Elective II)</td></tr><tr><td>EV 67 D</td><td>Design and Drawing of Environmental Systems – II</td></tr><tr><td>EV 47 L</td><td>Environmental Fluid Mechanics Lab</td></tr><tr><td rowspan="6">2017 - 2018</td><td rowspan="6">ODD</td><td rowspan="6">U.G</td><td>HU 420</td><td>Environmental Studies – Department of Industrial Production</td></tr><tr><td>EV 330</td><td>Environmental Fluid Mechanics - I</td></tr><tr><td>EV 720</td><td>Occupational Safety and Health</td></tr><tr><td>HU 320</td><td>Environmental Studies – Computer Science &amp; Engineering –A Section</td></tr><tr><td>HU 320</td><td>Environmental Studies – Information Science &amp; Engineering</td></tr><tr><td>EV 57 D</td><td>Design &amp; Drawing of Environmental Systems - I</td></tr><tr><td rowspan="5">2017 - 2018</td><td rowspan="5">Even</td><td rowspan="4">U.G</td><td>EV 58 L</td><td>Environmental Process Laboratory - I</td></tr><tr><td>EV 610</td><td>Estimation, Specification and Financial Aspects</td></tr><tr><td>EV 820</td><td>Industrial Wastewater Treatment Technologies</td></tr><tr><td>EV 67 D</td><td>Design &amp; Drawing of Environmental Systems - II</td></tr><tr><td>P.G</td><td>EV 46 L</td><td>Environmental Microbiology Laboratory</td></tr><tr><td rowspan="4">2018 - 2019</td><td rowspan="4">ODD</td><td rowspan="4">U.G</td><td>EVE 270</td><td>Biological Treatment Processes Lab</td></tr><tr><td>EV330</td><td>Environmental Fluid Mechanics I</td></tr><tr><td>EV 540</td><td>Occupational Safety and Health</td></tr><tr><td>HU310</td><td>Environmental Studies (Electrical Engineering)</td></tr><tr><td></td><td></td><td></td><td>EV75L</td><td>Atmospheric Measurement lab (Air and Noise)</td></tr></tbody></table>					COURSES TAUGHT DURING THE YEAR					YEAR	ODD / EVEN	U.G / P.G Course	Subject Code	Subject Title	2015 - 2016	ODD	U.G	EV 58 L	Environmental Process Laboratory – I	EV 75 L	Atmospheric Measurement Lab (Air and Noise) Lab	P.G	EVH 130	Design of Water Treatment Processes and Distribution System	Even	U.G	EV 440	Geology and Geotechnical Engineering	EV 47 L	Environmental Fluid Mechanics Lab	P.G	EVH 251	Water Recovery, Reuse and Recycle Technology (Elective IV)	2016 - 2017	ODD	U.G	EV 330	Environmental Fluid Mechanics - I	EV 730	Environmental Engineering Management Practices	EV 57 D	Design & Drawing of Environmental Systems – I	EV 58 L	Environmental Process Laboratory – I	Even	U.G	EV 610	Estimation, Specifications and Financial Aspects	EV 663	Non Point Sources - Pollution and Management (Elective II)	EV 67 D	Design and Drawing of Environmental Systems – II	EV 47 L	Environmental Fluid Mechanics Lab	2017 - 2018	ODD	U.G	HU 420	Environmental Studies – Department of Industrial Production	EV 330	Environmental Fluid Mechanics - I	EV 720	Occupational Safety and Health	HU 320	Environmental Studies – Computer Science & Engineering –A Section	HU 320	Environmental Studies – Information Science & Engineering	EV 57 D	Design & Drawing of Environmental Systems - I	2017 - 2018	Even	U.G	EV 58 L	Environmental Process Laboratory - I	EV 610	Estimation, Specification and Financial Aspects	EV 820	Industrial Wastewater Treatment Technologies	EV 67 D	Design & Drawing of Environmental Systems - II	P.G	EV 46 L	Environmental Microbiology Laboratory	2018 - 2019	ODD	U.G	EVE 270	Biological Treatment Processes Lab	EV330	Environmental Fluid Mechanics I	EV 540	Occupational Safety and Health	HU310	Environmental Studies (Electrical Engineering)				EV75L	Atmospheric Measurement lab (Air and Noise)
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	2018 - 2019	Even	UG	EV430	Environmental Fluid Mechanics I I
				EV 610	Estimation, Specification and Financial Aspects
				HU 420	Environmental Studies (Polymer Science)
				EV 47 L	Environmental Fluid Mechanics Lab
	2019 - 2020	ODD	UG	EV 560	Remote Sensing and GIS
				HU320	Environmental Studies (Computer Science – A Section)
				EV57D	Design and drawing of Environmental facilities
				EV 37L	Surveying Practices for Environmental Engineering Application
			PG	EVE130	Design of Wastewater Treatment Systems
				EVH170	Physico-chemical Processes Lab
	2019- 2020	Even	UG	EV 420	Environmental Fluid Mechanics - II
				EV 47L	Environmental Fluid Mechanics Lab
			PG	EVE 210	Air Quality Modeling and design of Air Pollution Control Techniques
	2020-2021	ODD	UG	EV 560	Remote Sensing and GIS
				HU320	Environmental Studies (Electronics and Communication)
				EV57D	Design and drawing of Environmental facilities
				EV 37L	Surveying Practices for Environmental Engineering Application
			PG	EVE130	Design of Wastewater Treatment Systems
			2020-2021	Even	UG
	EV 47L	Environmental Fluid Mechanics Lab			
	HU420	Environmental Studies (Mechanical Engineering – A Section)			
	PG	EVE 210			Air Quality Modeling and design of Air Pollution Control Techniques
	2021-2022	ODD	UG	EV330	Environmental Fluid Mechanics - I
				EV510	Water Treatment and Supply
				EV56D	Design and Drawing of Environmental Systems -I
				EV57L	Water Treatment Process Laboratory
			PG	EVE 130	Design of Wastewater Treatment Systems

Student projects guided					
Oct 15 – May 16	Aug 16 – May17	Aug 17 – May 18	Aug 18 – May 19	Aug 19 – May 20	Aug 20 – July 21
M.Tech. dissertation: completed - 03 B.E. projects: completed - 02	M.Tech. dissertation: completed - 02 B.E. projects: completed - 01	M.Tech. dissertation: completed - 02 B.E. projects: completed - 01	M.Tech. dissertation:ongoing - 04 B.E. projects: completed - 01	M.Tech. dissertation:ongoing - 02 B.E. projects: completed - 01	M.Tech. dissertation:ongoing - 02 B.E. projects: ongoing - 01

8.	CONTRIBUTION TO INDUSTRIAL DEVELOPMENT IN THE FORM OF CONSULTANCY				
	DATE	Project Title	Funding Agency	Amount (in lakhs)	Duration
	12/12/2018	Green Auditing	JSS College of Arts, Commerce and Science, Ooty road, Mysore		One month
	20-9-2018	Third Party Evaluation for the Work Providing Water Supply Scheme to Gangavathi Taluk of Koppal District	KUWS&DB	0.50	One month
	13-2-2019 & 14-2-2019	Green Audit JSS College of Arts, Commerce and Science	--	--	--
	2019	Green Audit – JSS Academy of technical Education (JSSATE),Bangalore		0.10	One month
	2019	Green Audit – JSS College for Women Kollegal		0.10	One month
	2020	Green Audit – Dayananda Sagar Engineering College Kanakapura road, Bangalore		0.15	One month
	2020	Grey Water Treatment – JSS Consultancy			
9.	ANY PROJECT COMPLETE OTHER THAN STUDENTS PROJECT - NIL -				
10.	DETAILS OF PAPERS PUBLISHED (GIVE THE TITLE, CO-AUTHOR IF ANY AND DETAILS OF JOURNALS				
	<div>➤ Monica B., <b>Shivakumar B.P.</b>, 2016, “ Treatability studies for nutrient removal using marble powder to restore Kukkarahalli lake and Lingambudi lake of Mysuru City”, International Research Journal of Engineering and Technology.</div> <div>➤ Yadhushree B., <b>Shivakumar B.P.</b>, KeerthiD’souza.,2017, “Qualitative Risk Assessment and HAZOP study of Glass manufacturing Industry”, International Journal of Advance Research Ideas and Innovations in Technology.</div> <div>➤ Sameena G.A., <b>Shivakumar B.P.</b>, 2016, “Remodelling of water supply scheme for Srirangapatna town – A Review” , International Journal of Modern Trends in Engineering and Research.</div> <div>➤ Vedavalli., <b>Shivakumar B.P.</b>, Yogesh., 2017, “A Review on Production, Performance and Exhaust Emission of various Non-Edible oil Biodiesel., International Journal for Science and Advance Research Technology.</div> <div>➤ Yashas S.R., <b>Shivakumar B.P.</b>, Udayashankara T.H., and Krishna B.M., 2018. “Laccase Biosensor: Green Technique for Quantification of Phenols in Wastewater (A Review)., Oriental Journal of Chemistry.</div> <div>➤ ShivamurthyRavindraYashas., Shadakshari Sandeep., <b>BallagerePuttarajuShivakumar.</b>, NingappaKumar.,2019. “Potentiometric polyphenol oxidase bio Sensor for sensitive determination of phenolic micro pollutants in environmental Samples” Environmental Science and Pollution Research.</div> <div>➤ ShivamurthyRavindraYashas., Shadakshari Sandeep., <b>BallagerePuttarajuShivakumar.</b>, NingappaKumar.,2019. “A matrix of perovskite micro-seeds and polypyrrole nanotubes tethered laccase/graphite biosensor for sensitive quantification of 2,4-dichlorophenol inwastewater” The Royal Society in Chemistry.</div>				

	<ul style="list-style-type: none"> <li>➤ Bharath M, Krishna B M, <b>Shivakumar B P., 2019.</b> “Electrocoagulation Treatment for Removal of Color and Chemical Oxygen Demand in Landfill Leachate using Aluminum Electrode”, International Journal of Recent Technology and Engineering.</li> <li>➤ Mahesha Mahabaleshwara Hegde, Manjunath T Bodke, Anusha , Lakshmi D O, <b>B P Shivakumar</b> “Design of Dewat system for Chikkalli village in Mysore Taluk”., <b>2021.</b> International Research Journal of Modernization in Engineering Technology and Science.</li> <li>➤ <b>Shivakumar B. P.</b> and Sanjana M. S.” Comparative study on waste decomposed using different species of earthworms”2021. World Journal of Engineering Research and Technology</li> </ul>
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**11. DETAILS OF TRAINING, DEPUTATION & COURSES UNDER GONE AFTER JOINING THIS INSTITUTION**

SL NO.	DATE	CERTIFICATES	DURATION	PLACE
1.	29 <sup>th</sup> February – 04 <sup>th</sup> March 2016	ENVIRONMENTAL MANAGEMENT FRAME WORK	One Week	BMS COLLEGE OF ENGINEERING
2	15 <sup>th</sup> May 2016	INDIAN GREEN BUILDING COUNCIL APPRECIATES	One Day	INDIAN GREEN BUILDING COUNCIL - NIE
3	26 <sup>th</sup> March 2016	AUTHORS WORKSHOP ON PUBLISH OR PERISH	One Day	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
4	26 <sup>th</sup> to 28 <sup>th</sup> May 2016	INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND TECHNOLOGY (ICMAT – 16)	Three Days	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
5	7 <sup>th</sup> June to 12 <sup>th</sup> June 2016	PEDAGOGY OF INSTRUCTION DESIGN AND DELIVERY SYSTEM	One Week	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
6	13 <sup>th</sup> to 35 <sup>th</sup> June 2016	FATE AND TRANSPORT OF CONTAMINANTS IN THE ENVIRONMENT	2 Weeks	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
7	11 <sup>th</sup> to 22 <sup>nd</sup> July 2016	SPATIAL TECHNOLOGY AND MODELING FOR DROUGHT MANAGEMENT	2 Weeks	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
8	25 <sup>th</sup> to 27 <sup>th</sup> October 2016	HAZARDOUS MATERIALS MANAGEMENT	3 days	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II – Indo-US Workshop
9	28 <sup>th</sup> December 2016 to 03 <sup>rd</sup> January 2017	STRENGTH BASED PERSONALITY DEVELOPMENT PROGRAMME	5 days	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II – GALLUP CERTIFIED STRENGTHS COACH
10	10 <sup>th</sup> to 20 <sup>th</sup> February 2017	SOLID WASTE MANAGEMENT – FEASIBILITY OF TECHNOLOGY TRANSFER	2 Weeks	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
11	28 <sup>th</sup> February 2018	SPECTRUM OF INTELLECTUAL PROPERTY RIGHTS WITH SPECIAL EMPHASIS ON PATENTS	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
12	24 <sup>th</sup> April 2019	CALIBRATION OF ADVANCED METROLOGY INSTRUMENT - NABL	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
13	15 <sup>th</sup> July 2019 to 19 <sup>th</sup> July 2019	GEOSPATIAL TECHNOLOGIES	5 days	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
14	22 <sup>nd</sup> to 27 <sup>th</sup> July 2019	ADVANCED MATERIALS FOR ENERGY, WATER AND HEALTH	5 day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU

	15	6 <sup>th</sup> to 10 <sup>th</sup> Aug 2019	WORK STUDY PROFESSIONAL	5 days	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	16	17 <sup>th</sup> to 18 <sup>th</sup> Aug 2019	35 <sup>th</sup> NATIONAL CONVENTION OF ENVIRONMENTAL ENGINEERING & NATIONAL CONFERENCE	2 days	THE INSTITUTION OF ENGINEERING(INDIA) KARNATAKA STATE CENTRE, BANGALORE
	17	17 <sup>th</sup> to 21 <sup>st</sup> August, 2020	Advances in Water Resources Management and Sustainable Environmental	One Week	M S Ramaiah Institute of Technology, M S R Nagar, Bangalore
	18	13 <sup>th</sup> June 2020	Webinar on " Remote Sensing for Environmental Studies	One day	Dr. Ambedkar Institute of Technology, Bangalore
	19.	4 <sup>th</sup> August 2020	Webinar on "An overview on Indian Environmental Regulatory Framework in Present Context"	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	20.	5 <sup>th</sup> to 6 <sup>th</sup> August 2020	Webinar on "Source Emission Monitoring Techniques"	Two days	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
			Webinar on "Water Quality Monitoring Preservation and Analytical Techniques"		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
			Webinar on "E – Waste (Management and Handling) Rules 2016"		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
			Webinar on "Online Continuous Effluent and Emission Monitoring System : Regulatory Perspective"		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	21.	13 <sup>th</sup> August 2020	Webinar on "Quality & EHS in Industries"	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	22.	19 <sup>th</sup> August 2020	Webinar on "Implication of Law in Environmental Engineering"	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	23.	24 <sup>th</sup> to 25 <sup>th</sup> August 2020	Webinar on "River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis"	Two day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
			Webinar on "Environmental V/s Economic Development"		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	24.	1st to 5th Feb 2021	Smart Cities	One Week	AICTE Training and Learning (ATAL)
	25.	12th to 24th July 2021	Industrial Training at RTTC, Mysore	Two Week	Bharat Sanchar Nigam Limited., Regional Telecom Training Centre, T. K Layout, Mysuru - 570009
	26.	13th to 17th September 2021	Faculty Development Program on Sustainable Design with Pre- Engineered Techniques :- An Approach towards Eco-Friendly Building	Five days	AICTE Training and Learning (ATAL) at Dayananda Sagar Academy of Technology & management.
	27.	20th to 24th September 2021	Faculty Development Program on GIS & Remote Sensing	Five days	AICTE Training and Learning (ATAL) at National Power Training Institute – Shivpuri (M.P)
	<b>Professional Affiliation</b> Obtained life membership (LM No.: 9014) of Indian Water Association on March 25 <sup>th</sup> Works, 2017.				
	12	<b>CERTIFICATE COURSE:</b>			
		SI No.	Title	Online Certificate Course by	Days
		1	Remote Sensing and Digital Processing of Satellite Data	NPTEL	8 Weeks
		2	Air Pollution – A Global Threat to Our Health	Coursera	2 Weeks
		3	Renewable Energy and Green Building Entrepreneurship	Coursera	2 Weeks

13	<p><b>ORGANISING COMMITTEE MEMBER/CO-ORDINATOR/ EDITOR /REVIEWER etc</b></p> <ol style="list-style-type: none"> <li>1. Organized two day workshop on Integrated Solid Waste Management (ISWM) on 6th and 7th September 2019, TEQIP-III sponsored.</li> <li>2. Organized one day workshop on “Recent advances in Environmental Engineering on 4.12.2019</li> <li>3. Organized one day Webinar on “E – Waste (Management and Handling) Rules”: 2016 on 6.08.2020</li> <li>4. Organized one day Webinar on “Environmental V/s Economic Development” on 25<sup>th</sup> .08.2020</li> </ol>
14.	<p><b>PRESENT ADDRESS, PHONE NO., MOBILE NO., &amp; E-MAIL</b></p> <p>#8, 6<sup>th</sup> Cross, New Model House, Near AranyaBhavana, Ashokapuram, Mysore – 570 008 Mobile: +91 9740146406, Email: shivakumar.env@gmail.com</p>
<p><b>Date:</b> <span style="float: right;"><b>(Signature of the Employee)</b></span></p>	

## **APPENDIX – I**

### **DETAILS OF TRAINING, DEPUTATION & COURSE UNDER GONE AFTER JOINING THIS INSTITUTION**

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15	6 <sup>th</sup> to 10 <sup>th</sup> Aug 2019	WORK STUDY PROFESSIONAL	5 days	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
16	17 <sup>th</sup> to 18 <sup>th</sup> Aug 2019	35 <sup>th</sup> NATIONAL CONVENTION OF ENVIRONMENTAL ENGINEERING & NATIONAL CONFERENCE	2 days	THE INSTITUTION OF ENGINEERING(INDIA) KARNATAKA STATE CENTRE, BANGALORE
17	17 <sup>th</sup> to 21 <sup>st</sup> August, 2020	Advances in Water Resources Management and Sustainable Environmental	One Week	M S Ramaiah Institute of Technology, M S R Nagar, Bangalore
18	13 <sup>th</sup> June 2020	Webinar on “ Remote Sensing for Environmental Studies	One day	Dr. Ambedkar Institute of Technology, Bangalore
19.	4 <sup>th</sup> August 2020	Webinar on “An overview on Indian Environmental Regulatory Framework in Present Context”	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
20.	5 <sup>th</sup> to 6 <sup>th</sup> August 2020	Webinar on “Source Emission Monitoring Techniques”	Two days	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
		Webinar on “Water Quality Monitoring Preservation and Analytical Techniques”		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
		Webinar on “E – Waste (Management and Handling) Rules 2016”		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
		Webinar on “Online Continuous Effluent and Emission Monitoring System : Regulatory Perspective”		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
21.	13 <sup>th</sup> August 2020	Webinar on “Quality & EHS in Industries”	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
22.	19 <sup>th</sup> August 2020	Webinar on “Implication of Law in Environmental Engineering”	One day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
23.	24 <sup>th</sup> to 25 <sup>th</sup> August 2020	Webinar on “River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis”	Two day	JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
		Webinar on “Environmental V/s Economic Development”		JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
24.	1 <sup>st</sup> to 5 <sup>th</sup> Feb 2021	Smart Cities	One Week	AICTE Training and Learning (ATAL)
25.	12 <sup>th</sup> to 24 <sup>th</sup> July 2021	Industrial Training at RTTC, Mysore	Two Week	Bharat Sanchar Nigam Limited., Regional Telecom Training Centre, T. K Layout, Mysuru - 570009



<b>SL NO.</b>	<b>DATE</b>	<b>CERTIFICATES</b>	<b>DURATION</b>	<b>PLACE</b>
26.	13 <sup>th</sup> to 17 <sup>th</sup> September 2021	Faculty Development Program on Sustainable Design with Pre-Engineered Techniques :- An Approach towards Eco-Friendly Building	Five days	AICTE Training and Learning (ATAL) at Dayananda Sagar Academy of Technology & management.
27.	20 <sup>th</sup> to 24 <sup>th</sup> September 2021	Faculty Development Program on GIS & Remote Sensing	Five days	AICTE Training and Learning (ATAL) at National Power Training Institute – Shivpuri (M.P)

## APPENDIX - II

### COURSES TAUGHT DURING THE YEAR

<u>COURSES TAUGHT DURING THE YEAR</u>				
YEAR	ODD / EVEN	U.G / P.G Course	Subject Code	Subject Title
2015 - 2016	ODD	U.G	EV 58 L	Environmental Process Laboratory – I
			EV 75 L	Atmospheric Measurement Lab (Air and Noise) Lab
		P.G	EVH 130	Design of Water Treatment Processes and Distribution System
	Even	U.G	EV 440	Geology and Geotechnical Engineering
			EV 47 L	Environmental Fluid Mechanics Lab
		P.G	EVH 251	Water Recovery, Reuse and Recycle Technology ( <b>Elective IV</b> )
2016 - 2017	ODD	U.G	EV 330	Environmental Fluid Mechanics - I
			EV 730	Environmental Engineering Management Practices
			EV 57 D	Design & Drawing of Environmental Systems – I
			EV 58 L	Environmental Process Laboratory – I
	Even	U.G	EV 610	Estimation, Specifications and Financial Aspects
			EV 663	Non Point Sources - Pollution and Management ( <b>Elective II</b> )
			EV 67 D	Design and Drawing of Environmental Systems – II
			EV 47 L	Environmental Fluid Mechanics Lab
2017 - 2018	ODD	U.G	HU 420	Environmental Studies – Department of Industrial Production
			EV 330	Environmental Fluid Mechanics - I
			EV 720	Occupational Safety and Health
			HU 320	Environmental Studies – Computer Science & Engineering –A Section
			HU 320	Environmental Studies – Information Science & Engineering
			EV 57 D	Design & Drawing of Environmental Systems - I
2017 - 2018	Even	U.G	EV 58 L	Environmental Process Laboratory - I
			EV 610	Estimation, Specification and Financial Aspects
			EV 820	Industrial Wastewater Treatment Technologies
			EV 67 D	Design & Drawing of Environmental Systems - II
			EV 46 L	Environmental Microbiology Laboratory
2018 - 2019	ODD	U.G	P.G	EVE 270
			EV330	Environmental Fluid Mechanics I
			EV 540	Occupational Safety and Health
			HU310	Environmental Studies (Electrical Engineering)
			EV75L	Atmospheric Measurement lab (Air and Noise)
2018 - 2019	Even	UG	EV430	Environmental Fluid Mechanics I I
			EV 610	Estimation, Specification and Financial Aspects
			HU 420	Environmental Studies (Polymer Science)
			EV 47 L	Environmental Fluid Mechanics Lab
2019 - 2020	ODD	UG	EV 560	Remote Sensing and GIS
			HU320	Environmental Studies (Computer Science – A Section)
			EV57D	Design and drawing of Environmental facilities
			EV 37L	Surveying Practices for Environmental Engineering Application
		PG	EVE130	Design of Wastewater Treatment Systems
			EVH170	Physico-chemical Processes Lab

<b>COURSES TAUGHT DURING THE YEAR</b>				
<b>YEAR</b>	<b>ODD / EVEN</b>	<b>U.G / P.G Course</b>	<b>Subject Code</b>	<b>Subject Title</b>
<b>2019 - 2020</b>	<b>Even</b>	<b>UG</b>	EV 420	Environmental Fluid Mechanics - II
			EV 47L	Environmental Fluid Mechanics Lab
		<b>PG</b>	EVE 210	Air Quality Modeling and design of Air Pollution Control Techniques
<b>2020- 2021</b>	<b>ODD</b>	<b>UG</b>	EV 560	Remote Sensing and GIS
			HU320	Environmental Studies (Electronics and Communication)
			EV57D	Design and drawing of Environmental facilities
			EV 37L	Surveying Practices for Environmental Engineering Application
		<b>PG</b>	EVE130	Design of Wastewater Treatment Systems
<b>2020- 2021</b>	<b>Even</b>	<b>UG</b>	EV 420	Environmental Fluid Mechanics - II
			EV 47L	Environmental Fluid Mechanics Lab
			HU420	Environmental Studies (Mechanical Engineering – A Section)
		<b>PG</b>	EVE 210	Air Quality Modeling and design of Air Pollution Control Techniques
<b>2021- 2022</b>	<b>ODD</b>	<b>UG</b>	20EV330	Basic Environmental Fluid Mechanics
			EV 510	Water Treatment and Supply Engineerin
			EV 56D	Design and Drawing of Environmental Systems - 1
			EV 57L	Water Treatment Process Laboratory
			EVE130	Design of Wastewater Treatment Systems
		<b>PG</b>	EVE130	Design of Wastewater Treatment Systems

## APPENDIX – II

### COURSES TAUGHT DURING THE YEAR WITH CLASS SIZE

YEAR	ODD / EVEN	U.G / P.G Course	Subject Code	Subject Title	Class Size
2015 - 2016	ODD	P.G	EVH 130	Design of Water Treatment Processes and Distribution System	16
	Even	U.G	EV 440	Geology and Geotechnical Engineering	55
		P.G	EVH 251	Water Recovery, Reuse and Recycle Technology <b>(Elective IV)</b>	16
2016 - 2017	ODD	U.G	EV 330	Environmental Fluid Mechanics - I	55
			EV 730	Environmental Engineering Management Practices	60
			EV 57 D	Design & Drawing of Environmental Systems – I	55
	Even	U.G	EV 610	Estimation, Specifications and Financial Aspects	55
			EV 663	Non Point Sources - Pollution and Management <b>(Elective II)</b>	18
			EV 67 D	Design and Drawing of Environmental Systems – II	55
			HU 420	Environmental Studies – Department of Industrial Production	60
2017 - 2018	ODD	U.G	EV 330	Environmental Fluid Mechanics - I	55
			EV 720	Occupational Safety and Health	55
			HU 320	Environmental Studies – Computer Science & Engineering –A Section	65
			HU 320	Environmental Studies – Information Science & Engineering	65
			EV 57 D	Design & Drawing of Environmental Systems – I	55
2017 - 2018	Even	U.G	EV 610	Estimation, Specification and Financial Aspects	55
			EV 820	Industrial Wastewater Treatment Technologies	55
			EV 67 D	Design & Drawing of Environmental Systems – II	55
2018 - 2019	ODD	U.G	EV330	Environmental Fluid Mechanics I	55
			EV 540	Occupational Safety and Health	55
			HU310	Environmental Studies (Electrical Engineering)	70
2018	Even	U.G	EV420	Environmental Fluid Mechanics II	55

<b>- 2019</b>			EV640	Estimation, Specification and Financial Aspects	48
			HU 420	Environmental Studies (Polymer Science)	38
<b>2019 - 2020</b>	<b>ODD</b>	<b>UG</b>	EV 560	Remote Sensing and GIS	55
			HU320	Environmental Studies (Computer Science – A Section)	60
			EV57D	Design and drawing of Environmental facilities	55
			EV 37L	Surveying Practices for Environmental Engineering Application	15
		<b>PG</b>	EVE130	Design of Wastewater Treatment Systems	18
			EVH170	Physico-chemical Processes Lab	18
<b>2019 -2020</b>	<b>Even</b>	<b>UG</b>	EV 420	Environmental Fluid Mechanics II	44
			EV 47 L	Environmental Fluid Mechanics Lab	44
		<b>PG</b>	EVE 210	Air quality modeling and design of air pollution control techniques	18
<b>2020- 2021</b>	<b>ODD</b>	<b>UG</b>	EV 560	Remote Sensing and GIS	45
			HU320	Environmental Studies (Electronics and Communication)	67
			EV57D	Design and drawing of Environmental facilities	45
			EV 37L	Surveying Practices for Environmental Engineering Application	56
		<b>PG</b>	EVE130	Design of Wastewater Treatment Systems	16
<b>2020- 2021</b>	<b>Even</b>	<b>UG</b>	EV 420	Environmental Fluid Mechanics - II	56
			EV 47L	Environmental Fluid Mechanics Lab	56
			HU420	Environmental Studies (Mechanical Engineering – A Section)	67
		<b>PG</b>	EVE 210	Air Quality Modeling and design of Air Pollution Control Techniques	16

<b>2021-2022</b>	<b>ODD</b>	<b>UG</b>	20EV330	Basic Environmental Fluid Mechanics	46
			EV 510	Water Treatment and Supply Engineerin	55
			EV 56D	Design and Drawing of Environmental Systems - 1	55
			EV 57L	Water Treatment Process Laboratory	15
		<b>PG</b>	EVE130	Design of Wastewater Treatment Systems	16

### APPENDIX - III

#### LABS HANDLED

<b>YEAR</b>	<b>ODD / EVEN</b>	<b>U.G / P.G Course</b>	<b>Subject Code</b>	<b>Subject Title</b>	<b>Class Size</b>
			EV 75 L	Atmospheric Measurement Lab (Air and Noise) Lab	28
	<b>EVEN</b>	<b>U.G</b>	EV 47 L	Environmental Fluid Mechanics Lab	28
	<b>EVEN</b>	<b>U.G</b>	EV 47 L	Environmental Fluid Mechanics Lab	28
<b>2017 - 2018</b>	<b>ODD</b>	<b>U.G</b>	EV 58 L	Environmental Process Laboratory - I	28
	<b>EVEN</b>	<b>U.G</b>	EV 46 L	Environmental Microbiology Laboratory	28
		<b>PG</b>	EVE 270	Biological Treatment Processes Lab	18
<b>2018 - 2019</b>	<b>ODD</b>	<b>U.G</b>	EV75L	Atmospheric Measurement lab (Air and Noise)	28
<b>2018 - 2019</b>	<b>EVEN</b>	<b>U.G</b>	EV 47 L	Environmental Fluid Mechanics Lab	28
<b>2019 - 2020</b>	<b>ODD</b>	<b>U.G</b>	EV 37L	Surveying Practices for Environmental Engineering Application	15
		<b>PG</b>	EVH170	Physico-chemical Processes Lab	18
<b>2019 - 2020</b>	<b>EVEN</b>	<b>UG</b>	EV 47 L	Environmental Fluid Mechanics Lab	44
<b>2020 - 2021</b>	<b>ODD</b>	<b>U.G</b>	EV57D	Design and drawing of Environmental facilities	45
			EV 37L	Surveying Practices for Environmental Engineering Application	56
	<b>EVEN</b>		EV 47L	Environmental Fluid Mechanics Lab	56
<b>2021- 2022</b>	<b>ODD</b>	<b>UG</b>	EV 56D	Design and Drawing of Environmental Systems - 1	55
			EV 57L	Water Treatment Process Laboratory	15

## **DETAILS OF CONSULTANCY AFTER JOINING THIS INSTITUTION**

<b>DATE</b>	<b>Team members</b>	<b>Project Title</b>	<b>Funding Agency</b>	<b>Amount (in lakhs)</b>	<b>Duration</b>
12/12/2018	Dr.THU, Dr DIL, Dr.BMS, Mr.BPS, Mrs. MS	Green Auditing	JSS College of Arts, Commerce and Science, ooty road, Mysore		One month
20-9-2018	MMS, BM, BPS	Third Party Evaluation for the Work Providing Water Supply Scheme to Gangavathi Taluk of Koppal District	KUWS&DB	0.50	One month
2019	BM, BPS	Green Audit – JSS Academy of technical Education (JSSATE),Bangalore		0.10	One month
2019	DIL, BMK, BPS	Green Audit – JSS College for Women Kollegal		0.10	One month
2020	BM, PT,BPS	Green Audit – Dayananda Sagar Engineering College Kanakapura road, Bangalore		0.15	One month
2020	BM, BPS	Grey Water Treatment – JSS Consultancy			



<b>CERTIFICATE COURSE</b>			
<b>SI No.</b>	<b>Title</b>	<b>Online Certificate Course by</b>	<b>Days</b>
1	Remote Sensing and Digital Processing of Satellite Data	NPTEL	8 Weeks
2	Air Pollution – A Global Threat to Our Health	Coursera	2 Weeks
3	Renewable Energy and Green Building Entrepreneurship	Coursera	2 Weeks

<b>ORGANISING COMMITTEE MEMBER/CO-ORDINATOR</b>		
<b>Sl No.</b>	<b>Title</b>	<b>Days</b>
1	Organized two day workshop on Integrated Solid Waste Management (ISWM) on 6th and 7th September 2019, TEQIP-III sponsored.	Two
2	Organized one day workshop on “Recent advances in Environmental Engineering on 4.12.2019	One
3	Organized one day Webinar on “E – Waste (Management and Handling) Rules”: 2016 on 6.08.2020	One
4	Organized one day Webinar on “Environmental V/s Economic Development” on 25th .08.2020	One

### **DETAILS OF PAPERS PUBLISHED**

1. Monica B., **Shivakumar B.P.**, 2016, “ Treatability studies for nutrient removal using marble powder to restore Kukkarahalli lake and Lingambudi lake of Mysuru City”, International Research Journal of Engineering and Technology.
2. Sameena G.A., **Shivakumar B.P.**, 2016, “ Remodelling of water supply scheme for Srirangapatna town – A Review” , International Journal of Modern Trends in Engineering and Research.
3. Yadhushree B., **Shivakumar B.P.**, Keerthi D’souza., 2017, “Qualitative Risk Assessment and HAZOP study of Glass manufacturing Industry”, International Journal of Advance Research Ideas and Innovations in Technology.
4. Vedavalli., **Shivakumar B.P.**, Yogesh., 2017, “A Review on Production, Performance and Exhaust Emission of various Non-Edible oil Biodiesel., International Journal for Science and Advance Research Technology.
5. Yashas S.R., **Shivakumar B.P.**, Udayashankara T.H., and Krishna B.M., 2018. “Laccase Biosensor: Green Technique for Quantification of Phenols in Wastewater (A Review). Oriental Journal of Chemistry.
6. Shivamurthy Ravindra Yashas.,Shadakshari Sandeep.,**Ballagere Puttaraju Shivakumar.**,Ningappa Kumara Swamy. **2019.**Potentiometric polyphenol oxidase biosensor for sensitive determination of phenolic micropollutant in environmental samples.,Springer-Verlag GmbH Germany, part of Springer Nature 2019.
7. Shivamurthy Ravindra Yashas.,Shadakshari Sandeep.,**Ballagere Puttaraju Shivakumar.**,Ningappa Kumara Swamy. **2019.**A matrix of perovskite micro-seeds and polypyrrole nanotubes tethered laccase/graphite biosensor for sensitive quantification of 2,4-dichlorophenol in wastewater
8. Bharath M, Krishna B M, **Shivakumar B P.**,**2019.** “Electrocoagulation Treatment for Removal of Color and Chemical Oxygen Demand in Landfill Leachate using Aluminum Electrode”, International Journal of Recent Technology and Engineering.
9. Mahesha Mahabaleshwara Hegde, Manjunath T Bodke, Anusha , Lakshmi D O, **B P Shivakumar** “Design of Dewat system for Chikkalli village in Mysore Taluk”., **2021.** International Research Journal of Modernization in Engineering Technology and Science
10. Shivakumar B. P. and **Sanjana M. S.**” Comparative study on waste decomposed using different species of earthworms”2021. World Journal of Engineering Research and Technology

1.	29 <sup>th</sup> February – 04 <sup>th</sup> March 2016, ENVIRONMENTAL MANAGEMENT FRAME WORK, One Week, BMS COLLEGE OF ENGINEERING
2	15 <sup>th</sup> May 2016, INDIAN GREEN BUILDING COUNCIL APPRECIATES, One Day, INDIAN GREEN BUILDING COUNCIL - NIE
3	26 <sup>th</sup> March 2016, AUTHORS WORKSHOP ON PUBLISH OR PERISH , One Day, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
4	26 <sup>th</sup> to 28 <sup>th</sup> May 2016, INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND TECHNOLOGY (ICMAT – 16) Three Days, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
5	7 <sup>th</sup> June to 12 <sup>th</sup> June 2016, PEDAGOGY OF INSTRUCTION DESIGN AND DELIVERY SYSTEM, One Week SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II
6	13 <sup>th</sup> to 35 <sup>th</sup> June 2016, FATE AND TRANSPORT OF CONTAMINANTS IN THE ENVIRONMENT 2 Weeks, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
7	11 <sup>th</sup> to 22 <sup>nd</sup> July 2016, SPATIAL TECHNOLOGY AND MODELING FOR DROUGHT MANAGEMENT 2 Weeks, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
8	25 <sup>th</sup> to 27 <sup>th</sup> October 2016, HAZARDOUS MATERIALS MANAGEMENT, 3 days SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II – Indo-US Workshop
9	28 <sup>th</sup> December 2016 to 03 <sup>rd</sup> January 2017, STRENGTH BASED PERSONALITY DEVELOPMENT PROGRAMME 5 days, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under TEQIP-II – GALLUP CERTIFIED STRENGTHS COACH
10	10 <sup>th</sup> to 20 <sup>th</sup> February 2017, SOLID WASTE MANAGEMENT – FEASIBILITY OF TECHNOLOGY TRANSFER 2 Weeks, SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING under GLOBAL INITIATIVE OF ACADEMIC NETWORKS
11	28 <sup>th</sup> February 2018, SPECTRUM OF INTELLECTUAL PROPERTY RIGHTS WITH SPECIAL EMPHASIS ON PATENTS One day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
12	24 <sup>th</sup> April 2019, CALIBRATION OF ADVANCED METROLOGY INSTRUMENT – NABL, One day JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
13	15 <sup>th</sup> July 2019 to 19 <sup>th</sup> July 2019, GEOSPATIAL TECHNOLOGIES 5 days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
14	22 <sup>nd</sup> to 27 <sup>th</sup> July 2019, ADVANCED MATERIALS FOR ENERGY, WATER AND HEALTH, 5 day JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
15	6 <sup>th</sup> to 10 <sup>th</sup> Aug 2019, WORK STUDY PROFESSIONAL, 5 days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
16	17 <sup>th</sup> to 18 <sup>th</sup> Aug 2019, 35 <sup>th</sup> NATIONAL CONVENTION OF ENVIRONMENTAL ENGINEERING & NATIONAL CONFERENCE, 2 days, THE INSTITUTION OF ENGINEERING (INDIA) KARNATAKA STATE CENTRE, BANGALORE
17	17 <sup>th</sup> to 21 <sup>st</sup> August, 2020, Advances in Water Resources Management and Sustainable Environmental One Week , M S Ramaiah Institute of Technology, M S R Nagar, Bangalore
18	13 <sup>th</sup> June 2020, Webinar on “ Remote Sensing for Environmental Studies, One day ,Dr. Ambedkar Institute of Technology, Bangalore
19.	4 <sup>th</sup> August 2020, Webinar on “An overview on Indian Environmental Regulatory Framework in Present Context” One day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
20.	5 <sup>th</sup> to 6 <sup>th</sup> August 2020, Webinar on “Source Emission Monitoring Techniques”, Two days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	5 <sup>th</sup> to 6 <sup>th</sup> August 2020, Webinar on “Water Quality Monitoring Preservation and Analytical Techniques”, Two days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	5 <sup>th</sup> to 6 <sup>th</sup> August 2020, Webinar on “E – Waste (Management and Handling) Rules 2016”, Two days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	5 <sup>th</sup> to 6 <sup>th</sup> August 2020, Webinar on “Online Continuous Effluent and Emission Monitoring System : Regulatory Perspective”, Two days, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
21.	13 <sup>th</sup> August 2020, Webinar on “Quality & EHS in Industries”, One day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
22.	19 <sup>th</sup> August 2020, Webinar on “Implication of Law in Environmental Engineering”, One day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
23.	24 <sup>th</sup> to 25 <sup>th</sup> August 2020, Webinar on “River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis”, Two day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
	24 <sup>th</sup> to 25 <sup>th</sup> August 2020, Webinar on “Environmental V/s Economic Development”, Two day, JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU
24.	1 <sup>st</sup> to 5 <sup>th</sup> Feb 2021, Smart Cities, One Week, AICTE Training and Learning (ATAL)