

Faculty Information

Name of the Institution with Code No.		: 225, VSVN Polytechnic College				
1.	Name	: Dr. B. Saravanan				
2.	Status	: Permanent				
3.	Designation	: Lecturer (SS)				
4.	Department	: Mechanical Engineering				
5.	Qualifications	Ph.D.,	M.E	M.Sc.,	M.Com	Any other (Please specify)
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6.	a) Is your Department Accredited by NBA?	: Applied				
	b) If yes, provide the details of the NBA accreditation order, date and specify the duration of the NBA accreditation	: Application Number 6953 – 09.06.22				
7.	Teaching experience (in years)	: 22 Years				
8.	Subjects handled (during last 1 year)	2022-23 ODD Renewable Energy Sources Process Automation Practical 2022-23 EVEN Robotics Robotics Practical				
9.	Results of the subjects handled for the last 1 year (Attach separate sheet)	2022-23 ODD Renewable Energy Sources (98%) Process Automation Practical (100%) 2022-23 EVEN Robotics (100%) Robotics Practical (100%)				
10.	Teaching methods used (Lectures, Field Trip, Projects etc.) (Attach separate sheet)	: Lectures, Field Trips, Demonstration using Charts & Models				
11.	Technology used for teaching and frequency of use (Attach separate sheet)	: LCD Projector, Black Board, MCQ Questions – Frequency: Once in a week.				
12.	Course materials prepared during the last 1 year (Attach separate sheet)	: Course Material for Renewable Energy Sources Course Material for Robotics				
13.	Lab manuals developed during the last 1 year (Attach separate sheet)	: Lab Manual for Process Automation Practical Lab Manual for Robotics Practical				
14.	a) Grants received for research projects	: No				
	b) If yes, provide the details:					
	S.No.	Title of the research	Granting Agency	Grants received (Rs.)	Sanction & Order date	Status of the research
	i.					
	ii.					
	iii.					
	iv.					
	v.					
	vi.					

15.	Details of Research Publications:					
	S.No.	Title of the article	Name of the journal	Year	Vol No. / Issue No.	ISSN / ISBN
	i.	Determination of Optimum proportion of Water based Cutting Oil for CNC Machine	International Journal of Engineering and Manufacturing Science	2014	Vol 4 / No 1	ISSN 2249 – 3115
	ii.	Maintenance Cost Analysis of 4 stroke Petrol Engine based on Emission Test.	International Journal of Applied Engineering Research	2015	Vol 10 / No 28	ISSN 0973 – 4562
	iii.	Integrating Reliability and Maintenance analysis in selecting a Machine – A LCC based approach.	International Journal of Applied Engineering Research	2016	Vol 11 / No 3	ISSN 0973 – 4562
	iv.	Preventive Maintenance of small-scale Industry using IOT - A case study at M/s Chidambaram & Co	Institute of Engineers Annual Technical Volume of Production Engineering Division Board	2017	Vol 2	ISBN 978-81-936149-0-7
	v.	Temperature analysis of ABB Robot Servo drive with respect to Programming Method	International Journal of Science & Research	2018	Vol 7 / Issue 6	ISSN 2319 – 7064
	vi.	Optimal Design of Solar Drier for Pulses using OA Design & MRPI Method	International Journal of Innovative research in Technology	2019	Vol 5 / Issue 8	ISSN 2349 – 6002
	vii.	Application of Scenario based FMEA for Maintenance of Food Grain Processing Machine	International Journal of Research and Analytical Reviews	2019	Vol 6 / Issue 1	ISSN 2349 – 5138
	viii.	Analyzing the Effect of Water-soluble metal cutting fluid concentration and machining parameters on Tool wear, surface roughness and hardness of CNC Machine turned surface using Al2O3-TiCN mixed inserts.	Journal of the Balkan Tribological association	2019	Vol 25 / No 2	ISSN 1310 - 4772
	ix.	Analysis on Polytechnic Colleges of Tamil Nadu using SPSS & Tableau Software	International Journal of Science and Research	2019	Vol 8 / Issue 11	ISSN 2319 – 7064
	x.	Investigation on Charge Discharge Curve and Polarization Curve of Rechargeable Batteries to Suggest its Suitability for Electric vehicle	Institute of Engineers Annual Technical Volume of Electrical Engineering Division Board	2020	Vol 4	ISBN 978-81-945201-4-6
	xi.	Study on Response time of Roller type limit switch with rad type limit switch in Pneumatic Automation	International Journal of Innovative Research in Technology	2022	Vol 8 / Issue 12	ISSN 2349 – 6002
	xii.	Analyzing the effect of Pressure and flow rate in Double Acting Cylinder using Metering Out Control	International Journal of Novel Research and Development	2023	Vol 8 / Issue 6	ISSN 2456 – 4184
16.	Text book authored during the last 1 year (Attach separate sheet)		:	Authored paper in the Book by Mc Graw Hill Education India Pvt. Ltd. 2017		
17.	Contribution to enrich quality of teaching — learning/ administration (Seminars / Workshops / lectures / field visits organized) (Attach separate sheet)		:	Organized FDP for staff members on the topic 'Industrial Automation' Organized orientation program on 'NBA accreditation Process' for AGP staff members Organized workshop on Robotics for the staff members of KCET		
18.	No. of patents filed by the department (Attach separate sheet)		:	-		
19.	No. of patents obtained by the department (Attach separate sheet)		:	-		

20.	No. of patents filed by individual (Attach separate sheet)	:	1 No
21.	No. of patents obtained by individual in the last 3 years (Attach separate sheet)		1 No Title: Method and system for detecting growth and disease conditions based on vegetative indices of plants
22.	No. of MoUs signed by the institution with your efforts	:	6 Nos
23.	Contribution to the growth and development of the department and Institution. (Attach separate sheet for the details of activities)	:	Have updated the curriculum & added the following new exercises in the Process Automation Practical. <ol style="list-style-type: none"> 1. HMI 2. SCADA
24.	Other responsibilities for the growth and development of the respective department and Institution (Attach separate sheet)	:	Have held the responsibility of <ol style="list-style-type: none"> 1. VSVN Autonomous Cell Member during 2009 - 2011 2. Assistant Deputy Warden for the Hostel during 2014-2016 & 2018-2019 Currently holding the responsibilities as <ol style="list-style-type: none"> 1. Institution Placement Officer from 2020 onwards 2. Workshop Superintendent from 2021 onwards
25.	Signature	:	