

Department of Mechanical Engineering

FACULTY INFORMATION

	Name of Staff:-	Prof. Vinayak H. Deokar
	Designation: -	Assistant Professor
	Qualification:-	Ph.D , M.E Mechanical Design.
	Area of Specialization:-	Solar Energy, Experimental Stress Analysis, FEA, Optimization, MATLAB Simulation
	Experience:	Teaching - 14 Years, Industrial – 02 Years
	Email id:-	Vinayak.deokar@seti.edu.in deokarvinay@gmail.com
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• PAPER PUBLICATIONS AND PATENTS

Sr. No	Title of Paper	Name of journal and details	ISSN	Indexing
01	Simulation modeling and experimental validation of solar Photovoltaic PMBLDC motor water pumping system.	Journal of Thermal Engineering. Turkey	ISSN-2148-7847	Web of science, ESCI, Scopus.
02	Active cooling system for efficiency improvement of PV panel and utilization of waste recovered heat for hygienic drying of onion flakes.	Journal of Materials Science: Materials in Electronics. Springer nature	ISSN:0957-4522 EISSN: 1573-482X	Web of science, SCI, ESCI, Scopus
03	Real-time controlling and monitoring of Solar drying and	Mukt Shabd, Volume IX, Issue V, May 2020, 1244-1248.	ISSN-2347-3150	UGC Care group I

	Water pumping system using IoT.			
04	Design, Analysis and Optimisation using geometric parameters of 4 wheeler chassis for weight reduction	Mukt Shabd, Volume X, Issue VII, JULY-2021, 473 – 479.	ISSN-2347-3150	UGC Care group I
05	Effect of variation in mass flow rate on output power of cooled Photovoltaic Panel.	Fifth International Conference on Advances in, Materials Science (Online) (ICAMS- 2020) 06 th – 07 th June 2020.	Conference paper	International conference
06	Efficiency improvement of photovoltaic panel using active cooling.	Advances in Mechatronics and its interdisciplinary impact and ultramodern applications in context of 21st Century. 13th & 14th March 2020,	Conference paper	National conference

- PATENT**

Sr. No	Title	Details	Status
01	Improving efficiency of solar Photovoltaic panel by air cooling and its subsequent use in solar drying.	Indian Patent office. CBR Number : 26644 CBR Date: 11-12-2018.	Waiting for evaluation.

- RESEARCH CONTRIBUTION**

Ph.D Thesis Title

Simulation modeling and experimental validation of solar PV operated water pumping and solar thermal drying system.

Number of M.Tech students guided: 05

- **Research IDs:**

1	Scopus Id	57221206923
2	ORCID ID	0000-0002-9700-5849
3	Researcher ID	AAO-1235-2021
4	Google Scholar	5849/https://scholar.google.com.hk/citations?user=qDmQr3wAAAAJ

- **Reviewer of Journals**

1. Journal of Materials Science materials in electronics- (Springer Nature journal - Web of science and Scopus Indexed – impact factor 2.2)
2. Journal Of Thermal Engineering - (Web of science and Scopus Indexed – I.F - 1.8)
3. Walailak Journal - (Web of science and Scopus Indexed – I.F - 1.4)

- **Member of Professional Bodies:**

1. Indian Society for technical Education
2. Indian Society of Heat and Mass transfer

- **Details of Faculty Development Programs (Workshop/Conference)**

Faculty Development Program

Sr. No	Name of the Program	Organized By	Period
1	12week Non Conventional energy Resources FDP	NPTEL	February to April 2024
2	Research, Funding Projects & IPR	K. C. College of Engineering and Management Studies and Research, Thane (E), under the banner of IETE and Institution's Innovation Council (IIC)	7 th to 10 th May 2020
3	Spoken Tutorial Technology	Department of Mechanical Engineering of Smt. Kashibai Navale College of Engineering in association with Spoken Tutorial IIT Bombay	18 th to 22 nd May 2020

4	Artificial Intelligence	Department of Information Technology, Universal College of Engineering under IQAC in collaboration with Brain O Vision Solutions India Pvt. Ltd. & National Youth Council of India	22 nd to 26 th May 2020
5	Innovative Trends In Engineering And Technology	IQAC, Shree. L. R. Tiwari College of Engineering	25 th to 29 th May 2020
6	Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19	Department of Electronics Engineering in association with Institution's Innovation Council (IIC) of Vivekanand Education Society's Institute of Technology.	25 th to 30 th May 2020
7	Latex	Department of Civil Engineering, Institute of Technology, Dhule.	1 st to 7 th June 2020
8	e-Learning: Creating and Managing e-Content	VVPIET, Solapur.	22 nd to 24 th June 2020

Short Term Training Program

Sr No	Name of the Program	Organized By	Period
1	MATLAB based Teaching-Learning in Mathematics, Science & Engineering	Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai.	18 th to 22 nd May 2020
2	Advanced Optimization Tools & Techniques for Research & Engineers	SKN Sinhgad College of Engineering Pandharpur.	23 rd to 27 th May 2020
3	LATEX	Department of Engineering Sciences, RAIT Nerul, Navi Mumbai.	18 th to 20 th June 2020

Workshop Attended

Sr No	Name of the Workshop	Organized By	Period
1	Education 4.0	IQAC, Atharva College of Engineering	28 th to 30 th April 2020
2	Internet of Things	Universal College of Engineering, Vasai, Mumbai	14 th , 15 th May 2020
3	Digital Marketing session for teacher on Google Classroom and Microsoft Teams	NorthStorm Academy.	24 th and 25 th June 2020