Faculty Profile

- **Faculty Profile Name-: DIPAK EKANATH PATIL**
- **Designation- Assistant Professor**
- **Department:- Mechanical**
- **Mobile No. 7588698477**
- **Email Id- dipakpatil.mech@gmail.com**
- **Educational Qualification**:

Sr.No	Degree	University	% Marks	Class
1	ME (PDD)	Shivaji	65.74	First Class
2	BE (Mechanical)	Shivaji	60.79	First Class
3	12^{TH}	HSC Board	72.33	First Class
4	10^{th}	SSC Board	81.33	Distinction

- **Professional experience**:- Total experience in years: 11

Teaching: - 7 **Industrial:- 4**

Sr.No.	Organization	Post	Period
1	Ashokrao Mane Group of Institutions, Vathar	Assistant Professor	0.5
2	Ashokrao Mane Polytechnic, Vathar.	Lecturer	1.5
3	Dhananjay Mahadik Group of Institution, Vikasvadi, Kagal	Assistant Professor	5
4	Indocount Industries Ltd., Five Star MIDC, Kagal	Maintenance Engineer	2
5	Indo Schottle Auto Parts Pvt. Ltd., Pirangut, Pune.	Quality Assurance Engineer	2

- **Subject Taught**:-

Sr.No.	Under Graduate	Post Graduate
1	Fluid Mechanics	
2	Applied Numerical Method	
3	Refrigeration and Air Conditioning	
4	Applied Thermodynamics -II	

- **Project Work at U.G.:-**

Title: "Design & manufacturing of multi spindle drilling machine attachment"

The project is Sponsored by Shakti Irrigators Pvt. Ltd, Ichalkaranji. Early the company was drilling the pumps parts by vertical drilling machine with single drill only which requires more time. So, we have developed the Multi spindle drilling unit which fits in the any vertical drilling machine spindle & we can drill 4 holes at time with 77 mm PCD.

- **Project Work at P.G.:-**

  Title :- "Design and Development of Special Purpose Drilling Machine for Combined Horizontal and Angular Drilling Operation for Productivity Improvement with Optimization of Critical Parameters"

  Sponsored by "Menon and Menon Limited" Kolhapur.

  A special purpose drilling machine has been developed for drilling one horizontal and one angular drill at a time to the cylinder block. Experimentations were carried out for optimum value of 'Spindle Speed' and 'Feed Rate' to get better hole accuracy and minimum surface roughness and maximum material removal rate by GRA method. Finally statistical analysis is carried out to check process capability.

- **Certified Courses:-**
- **Paper Presented and published:-**

1. Published research paper "Optimization of Drilling Parameters for Material Removal Rate, Hole Accuracy and Surface Roughness by using Gray Relational Analysis", in International Journal for Innovative Research in Science and Technology.
2. Published research paper "Design and analysis of spindle of special purpose drilling machine by using solid works" in Journal of Mechanical and Mechanics Engineering, MAT Journals.
3. Published research paper "Optimization of Drilling Process Parameters for Cycle Time, Hole Accuracy and Surface Roughness using Taguchi Method" in International Journal of Advance Research in Science and Engineering.

International Conference:-

Sr.No.	Name of Conference	Institute	Date
1	International Conference on Recent Innovations in Engineering and Management (ICRIEM-16)	Dhananjay Mahadik Group of Institutions, Kagal	23/03/2016

- **STTP/FDP/Workshops/Attended/Participated:-**

Sr.No.	Name of STTP/FDP/workshop	Institute	Date	Attended/Participated
1	Power Plant Familiarization	Adani Electricity, Dahanu	23/2/2019	Attended
2	Emerging trends in "Product Design and Development"	PVPIT, Budhagaon	27/11/2017	Attended
2	Advanced Manufacturing Technique	DKTE's Ichalkaranji	12/1/2015	Attended
3	E-Foundry Casting Design Simulation	DKTE's Ichalkaranji	7/9/2013	Attended

- **Departmental Responsibilities:- ICT Coordinator, EDC Coordinator**