

FACULTY PROFILE

1. Name of the faculty with Qualification : MICHAEL THOMAS REX
2. Age & Date of birth : 31 & 03.07.1985
3. Designation : ASSISTANT PROFESSOR
4. Experience in NEC as on 01.06.16 : 6 Years (14.06.2010)
(With joining Date in NEC)
5. Area of Expertise : Engineering Design
6. Name of the Courses handled for the last 5 years (2011-12 to 2015-16) :



S.No	Courses
1	Engineering Mechanics
2	Kinematics of Machinery
3	Dynamics of Machinery
5	Product Design and Costing
6	New Product Design and Development
7	Dynamics Laboratory
8	Computer Aided Simulation and Analysis Lab

7. Research Area : Fixture Layout Design
8. Ph.D work and publications :
9. Progress after Ph.D :
10. Details of Project guided (BE and ME) : List with outcomes

S.No	Project Name	UG/PG	Year	Outcomes
1	Prediction of Deformation in Milling Process By Contact Analysis Using ANSYS	BE	April 2012	Published International conference
2	Dynamic Analysis on Workpiece Fixture System	ME	March 2014	Journal Article under review
3	Dynamic Analysis of Work Piece Fixture System For a Slot Milling Machining Process	BE	March 2014	Manuscript preparation is under progress
4	Influence of Workpiece Vibration on the Job Quality in End Milling Process	BE	March 2015	

11. Research Publication details :

List of faculty publications along with date if issues DOIs and publication/SCI impact factor details for the last 5 years (2011-12 to 2015-16)
Separate list for national and international journals and conferences.

S.No	Paper Title	Journal	Publication Date	SCI Impact Factor
1	An integrated approach for optimal fixture layout design	Journal of Engineering Manufacture	July 2, 2015, doi: 10.1177/0954405415590991	1
2	Intelligent Fixture layout design	Artificial Intelligence for Engineering Design, Analysis and Manufacturing	Under Review	-

S.No	Paper Title	Conference Title	Publication Year
1.	Prediction of Workpiece Elastic Deformation using FEM based Contact Analysis	International Conference on Mechanical Engineering Design, SSN College of Engineering	25-26, April, 2016
2.	Dynamic Analysis of Workpiece-Fixture System to Predict Elastic Deformation of the Workpiece	Recent Advances in Mechanical Engineering	28, March, 2014

12. Details of R&D Projects : Nil

13. Deatils of Consultancy Projects : Nil

14. Faculty interaction with outside world :

S.No	Expert	Duration & Venue
1.	FDP on Engineering Mechanics, sponsored by Anna University, Chennai	16-22, December, 2013, National Engineering College

15. Professional society activities, events, conferences organized: Nil

16. Professional society activities, events, conferences attended: Nil

17. FDP, Short term courses, workshops, seminar arranged : Nil

18. FDP, Short term courses, workshops, seminar attended :

S.No	Workshop/Seminar	Duration & Venue
1.	Formulation of Research and Development Grant Proposals by Scientists and Technologists	18-20, November, 2015, National Engineering College.
2.	Optimization and its Applications	10-11, November, 2014, NIT, Trichy
3.	Quantitative Tools for Research	13-15, September, 2013, Kongu Engineering College
4.	Optimization Techniques for Engineering Applications	10, March, 2012, Sri Ramakrishna Engineering College

S.No	FDP	Duration & Venue
1.	Foundation skills in Integrated Product Development	23-27, November, 2015, Thiagarajar College of Engineering
2.	Teaching Methodology for Transmission System Design	18-19, March, 2011, KLN College of Engineering

19. List of course module developed :

S.No	Courses
1.	Dynamics of Machinery

20. Records of new program specific facility created by faculty : Nil

21. Faculty Intellectual Property Rights (FIPR) applied : Nil

22. Laboratories/research facilities established :

S.No	Laboratory	Facilities	Budget (Rs.)
1.	Strength of Materials Laboratory	Analogue cum computerized UTM-60T	6,19,473
		Compression Testing machine-200T	2,97,070
2.	Computer Aided Manufacturing Laboratory	Flash forge creator PRO -3D Printer Dual Extruder, Accuracy:0.1 mm, Volume: 230x150x145x mm	99,00,000
		Matter and form - 3D Scanner Height: 25 cm, Dia.:18 cm, Accuracy: 0.43 mm	73,500

23. Any other informations/special achievements