

Resume

Vineet Kumar

Assistant Professor

Mechanical Engineering Department

Engineering College Bikaner

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Educational Qualification

S.No.	Degree	Subject	University
1.	Bachelor of Engineering	Mechanical Engineering	Dr. B.R. Ambedkar University, Agra
2.	M.TECH.	Design (Mech. Engineering)	M.N.N.I.T. Allahabad
3.	Ph.D. (Pursuing)	Machine Design (Mech. Engineering)	IIT Roorkee

Area of Specialization

Machine Design, Finite Element Method, Composite Materials, Dynamics of nano-composite and FGM structures, Vibration, Computational Mechanics, Soft Computing Methods, Fatigue and fracture.

Teaching experience

More than 16 years to till date.

Courses Taught

- (a) U.G. : Machine Design, Automobile Engineering, Thermal Engineering, FEM, Composite Materials, Basic Mechanical Engineering, Machine Drawing.
- (b) P.G. : Design of Thermal System.

Supervision of M.Tech. & B.Tech. Projects

- 1- M.Tech.: Mahendra Singh Solanki (2014-15).
- 2. M.Tech.: Farukhdeen (2016-17).

More than 15 B.Tech. project had been supervised.

Administrative/additional Duties

1.	Department Exam Coordinator
2.	Lab I/C
3.	Mechanical Testing Incharge at Ceramic Centre
4.	Head Central Store
5.	Coordinator Transport Department
6.	Nodal officer (Academic) TEQIP III
7.	Deputy Chief Warden
8.	Warden (Campus-1 Hostel)
9.	Department Sports Coordinator
10.	Technical Manager at CERDC

Refereed Journal and conference papers

1-Vijay Verma, D.K. Shukla, Vineet Kumar, “*Estimation of Fatigue Life of Epoxy-Alumina Polymer Nano-composites*”. doi: 10.1016/j.mspro.2014.07.314, International conference on advances in manufacturing and materials engineering (AMME 2014). Page 669-678, Procedia Materials Science.

2-Mahendra Solanki, Vineet Kumar, Y.Mathur, “*Experiment Investigation of Combustion Characteristics Analysis of Blend of Diesel With Low Concentration Linseed Methyl Ester At Different Compression Ratio On VCR Diesel Engine*”. ISSN 2250-2459, Volume 4, Issue 11, Nov.2014, IJETAE.

3-Vineet Kumar “*Static Analysis of Functionally Graded Materials Plate Using FEM*” Paper presented in national conference on Recent trends in Engineering and technology (NCRTE-2019), 15-16 Feb, 2019.

4-V. Kumar, S. J. Singh, V.H. Saran, S. P. Harsha “*Effect of Foundation on Free Vibration of Tapered Functionally Graded Material Plate*”. National Systems Conference on Innovative and Emerging Trends in Engineering Systems (NSC 2019), Lecture notes in Mechanical Engineering: Advances in System Engineering pp 889-904. doi.org/10.1007/978-981-15-8025-3_84.

5- V. Kumar, S. J. Singh, V.H. Saran, S. P. Harsha “*An analytical framework for rectangular FGM tapered plate resting on the elastic foundation*” Material Today: Proceedings 28(2020) 1719-1726, doi.org/10.1016/j.matpr.2020.05136.

6- V. Kumar, S. J. Singh, V.H. Saran, S. P. Harsha “*Exact solution for free vibration analysis of linearly varying thickness FGM plate using Galerkin-Vlasov’s method*” Proc IMechE, Part L: Journal of materials: Design and Applications, doi.org/10.1177/1464420720980491. 18 Dec. 2020.

7- V. Kumar, S. J. Singh, V.H. Saran, S. P. Harsha “*Vibration characteristics of porous FGM plate with variable thickness resting on Pasternak’s foundation*” European Journal of mechanics/ A Solids. 85 (2021) 104124.

Other Activity

- Conducted many job orientated programs for unemployed youths under RMOL.
- Additional duties are performed at college/department level in different time span as lab Incharge of Mechanical Testing Laboratory at Ceramic center and department level, Head Central Store, Deputy Chief warden, Hostel warden, Exam Coordinator, Nodal Officer (A) TEQIP III, Head Transportation, Committee members in various activity.
- Attended more than 20 Short term programme at different institute.

Visited various organization along with third year students as industrial tour (Baddi, Manali, Shimla & Chandigarh, from 24-31 March 2014, Fiat India Automobiles Limited, elring klinger Pune & Jhakotia Plastic Industries Goa, From 21-31 March 2015)

Short Term Courses Attended

S.N.	Name of Course	Organizer	Days	From	To
1.	Project Planning and Execution	N.T.T.T.R. Chandigarh (ECB)	05	20.11.2006	24.11.2006
2.	CAD Using Pro-E	N.T.T.T.R. Chandigarh	05	18.08.2008	22.08.2008
3.	Biodiesel Alternative Fuel for Future Fuel	Govt. Engineering College Bikaner	12	12.05.2008	23.05.2008
4.	Research Methodology & Research Data Analysis through SPP	Govt. Engineering College Bikaner	07	09.02.2013	15.02.2013
5.	Soft Computing	N.T.T.T.R. Chandigarh	05	11.11.2013	15.11.2013

6.	Engineering Mechanics	Govt. Engineering College Bikaner (IIT-Bombay through ICT)	11	26.11.2013	06.12.2013
7.	Instructional Planning & Delivery	N.T.T.T.R. Chandigarh	05	05.05.2014	09.05.2014
8.	Fluid Mechanics	Govt. Engineering College Bikaner (IIT-Kharagpur through ICT)	11	20.05.2014	30.05.2014
9.	Renewal Energy Based Technologies	N.T.T.T.R. Chandigarh (ECB)	05	25.08.2014	29.08.2014
10.	Advanced Manufacturing Methods through ICT	N.T.T.T.R. Chandigarh (ECB)	05	16.02.2015	20.02.2015
11.	Laboratory Quality Management System & Internal Audit as per ISO/IEC 17025 training course	IIQM, Jaipur	04	16.03.15	19.03.15
12.	Communication Skills	N.T.T.T.R. Chandigarh (ECB)	05	20.04.2015	24.04.2015
13.	Alternate Energy Sources & Energy Conservation through ICT	N.T.T.T.R. Chandigarh (ECB)	05	27.07.2015	31.07.2015
14.	Pedagogical Training for Engg. Faculties	ECB, Under TEQIP-II	05	28.09.2015	03.10.2015
15.	Effective Teaching and Pedagogical Practices	CET, IIT-Kharagpur	03	09.10.015	11.10.2015
16.	Computational Fluid	IIT Roorkee & AICTE	05	22.02.2016	26.02.2016

	Dynamics				
17.	Vibration Mitigation Technique “Theory & Application”	IIT Roorkee & AICTE	05	27.06.2016	01.07.16
18.	4 th INDO-GERMAN WORKSHOP on Sustainable Engineering	BITS, PILANI	02	17.09.2016	18.09.2016
19.	Optimization Using MATLAB Through ICT	Mech. Engg. Dept.& NITTTR Chandigarh.	05	24.10.2016	28.10.2016
20.	Computational Methods in Fluid Mechanics and Heat transfer	IIT Roorkee & AICTE	05	19.02.2018	23.02.2018
21.	Communication Strategies for scientists & Engineers in the Era of Globalization	IIT Roorkee & AICTE	05	04.06.2018	08.06.2018
22.	Applications of Computational Techniques in Engineering Using Matlab	IIT Roorkee & AICTE	05	03.06.2019	07.06.2019
23.	Finite Element Method and Computational Structural Dynamics	IIT Roorkee & AICTE	05	10.06.2019	14.06.2021
24.	Modern Measurement and Diagnostic Application in Fluid and Thermal Engineering	IIT Roorkee & AICTE	05	09.11.2019	13.11.2019
25.	Finite Element Methods	Department of Mech.	05	26.12.2020	30.12.2020

	(FEM) for Engineers (Online mode)	Engineering, RTU Kota / TEQIP -III			
26.	Pedagogy techniques and emerging trends	Department of Ceramic Engineering & Technology, UCET-Bikaner / TEQIP -III	10	01.03.2021	10.03.2021
27.	Advancements in Mechatronics Technologies	Deptt. Of Mech. Engineering, RMD Sinhgad School of Engineering, Warje, Pune	05	15.03.2021	19.03.2021
28.	Recent Trends in Communication Engineering (RTCE '21')	Sinhgad college of Engineering, Pune, in association with IEEE	05	23.08.2021	27.08.2021
29.	Two weeks Industrial training programme	Urmul Dairy Plant	15	06.09.2021	20.09.2021