

**Faculty Profile**  
**(For booklet and website)**

**Name:** I. K. Pandita

**Designation:** Professor

**Department:** Mechanical Engineering

**Email ID:** ikpandita@smvdu.ac.in

**Contact Number and Extn.:** 9419125858; 2251

**Qualification:** B.Tech, M.Tech and Ph.D.

**Experience:**

**Teaching:**  
38 years

**Research:**  
3 years

**Administration:**  
12 years

**Total:**  
41 years



**Areas of Interest / Specialization:**

1. Structural Design
2. Model based structural design
3. Structural Mechanics
4. Structural Dynamics
5. Automatic Controls

**Brief Bio-data:**

Completed B. Tech. (1973) and M. Tech. (1976) from I. I. T. Kanpur and Ph.D. from I. I. T. Bombay. Worked as Research Assistant in Aeronautical Department of IIT Kanpur for 1.5 years. Worked in National Aeronautical Laboratory as Scientist in 1978. Joined REC/NIT Srinagar in June 1979. Worked there at different teaching posts. Retired as Professor Mechanical Engineering in Feb.2017. Visited Italy for six months in 1979 under Indo Italian Program for establishment of Maintenance Centre at REC/NIT Srinagar.

## Research Profile

### Research Publications:

S. No.	Year	Publication
1	2016	Mahavir Singh, I. K. Panditta, S.K. Kheer, “Deflection of Plates by using Principle of Quasi work”, Journal of Applied Engineering Sciences, 6(2): December 2016, pp 21-24.
2	2016	Mahavir Singh, Suraj Krishan Kheer and I.K. Pandita, “Improvement of water distribution networks analysis by topological similarity”, Alexandria Engineering Journal, (2016), 55, pp1375 – 1383. DOI: org10.1016/j.aej.2016.04.023
3	2014	Inder Krishen Pandita, “Principle of Quasi Work and its import on Structural analysis”, GJRE: D, 2014, vol. 14, issue 1, version 1.0.
4	2013	Inder Krishen Pandita, “Euler Critical Load of Columns by Using Concept of Topological Similarity”, International Journal of Aerospace Sciences 2013, 2(2): 45-48 DOI: 10.5923/j.aerospace.20130202.03
5	2013	Inder Krishen Pandita, “Deflection of Structures using Modified Betti’s Theorem”, International Journal of Aerospace Sciences 2013, 2(1): 11-15 DOI: 10.5923/j.aerospace.20130201.02
6	2012	Inder Krishen Pandita, “Deflection of Structures using Modified Betti’s Theorem”, International Journal of Aerospace Sciences 2013, 2(1): 11-15 DOI: 10.5923/j.aerospace.20130201.02
7	2012	I.K. Pandita, MaroufWani, “Deflection of Structures using Principle of Quasi Work” International Journal of Aerospace Sciences, Vol. 1, No. 5, December 2012.
8	2010	Panditta, I.K., Ambardhar, R. and Dembi, N.J., “Redundant Reactions of Indeterminate Beams by Principle of Quasi Work”, <i>AIAA journal</i> , Vol. 48, No.1, 2010, pp 129-133; DOI: 10.2514/1.42470.
9	1999	I.K. Panditta, R.P. Shimpi and K.S.R.K. Prasad, ON THE THEORY OF DISCREET STRUCTURAL MODEL ANALYSIS AND DESIGN: IJSS 36 (1999), 2443 – 2462; DOI:10.1016/S0020-7683(98).00066.

**Conference Publications:**

<b>S. No.</b>	<b>Year</b>	<b>Publication</b>
<b>1</b>	<b>2011</b>	M. MaroufWani, I.K. Pandita, M. Haneef, 2011, “Computer simulation studies on a turbocharged four cylinder four stroke direct injection diesel engine using hydrogen as an alternative fuel to conventional diesel”, Proceedings International Conference on Renewable Energy, University of Jaipur, India.
<b>2</b>	<b>2011</b>	. M. Marouf Wani, I.K. Pandita, M. S. Charoo, M. Haneef, 2011, “Computational Studies On The Effect Of Air-Fuel Ratio On Performance Of A Turbocharged Diesel Engine Using Hydrogen And Diesel As Fuels.”, Proceedings on International Conference on Thermal Energy and Environment (INCOTEE 2011), Kalasalingam University, India – 626126, pp 1073-1081.
<b>3</b>	<b>2010</b>	M. MaroufWani, Muhammad Hanief, M.S. Charoo, I.K. Pandita, Syed AaqibAsad, Niyaz Ahmad Bhat, AadeelZaman Shah, OwaisNazir, YawarIqbal and AsifKathwari, 2 <sup>nd</sup> to 4 <sup>th</sup> Dec. 2010, “Experimental Investigations on the use of Alternative Fuels Viz. Ethanol, Bio-Diesel and Kerosene in a single Cylinder Direct Injection Diesel Engine in Terms of Performance and Environmental Pollution”, Proceedings 6 <sup>th</sup> JK Science Congress, University of Kashmir, India, p6

**Research Supervised:**

S. No.	Year	Role	Research Topic	Status
1	2014	Supervisor	Deflection of Plates using PQW	Completed
2	2014	Supervisor	Analysis of pipe flow using topological similarity.	Completed
3	2014	Supervisor	Eigen Value prediction of discrete systems by Topological Similarity.	Completed
4	2010	Supervisor	Modal Analysis of Motor Bike Frame using ANSYS. (2010)	Completed
5	2000	Supervisor	Application of P. Q. W. To the Analysis of Frames (2000).	Completed
6	1999	Supervisor	Application of P. Q. W. To the Analysis of Trusses	Completed
7	1999	Supervisor	Application of P. Q. W. To the Analysis of Beams (1999).	Completed

**Awards / Honours**

S.No.	Title	Activity/ Event	Given by	Year
1	National Scholarship	B. Tech. program	G.O.I.	1968 - 1973

**Professional Affiliation:**

S. No.	Designation	Organization
1	Life Member	I.S.T.E.