

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



**Name:** Neeraj Tripathi  
**Designation:** Assistant Professor  
**Department:** Electronics and Communication Engineering  
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**Contact Number**

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**Qualification:** PDSL (NEMS/MEMS), Italy (EU)  
M.Tech (Microelectronics and VLSI Design), IIT Kharagpur  
B.Tech. (Electronics & Communication Engineering), MMMEC, Gorakhpur

**Experience:**

<b>Teaching:</b>	<b>Research:</b>	<b>Administration:</b>	<b>Total:</b>
<b>13</b>	<b>4</b>	<b>2</b>	<b>19</b>

**Areas of Interest / Specialization:**

- 1 MEMS/NEMS, Implantable Medical Devices
- 2 VLSI Design, Microelectronics, Device Modeling

**Brief Bio-data:**

Have several years of work experience in India and abroad in the field of MEMS/NEMS and semiconductor device modeling. Have worked in several universities in India and abroad before joining SMVDU. Prefer to work in interdisciplinary research field based on multiphysics modeling and simulation. Have hands on experience with TCAD (Synopsys and Santarus), COMSOL. etc.

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## Research Profile

### Research Projects Undertaken:

S. No.	Role	Title	Funding Agency	Current Status (Closed/ Running)

### Research Publications:

S. No.	Year	Publication
1	2017	Current Trends in MEMS Drug Delivery Techniques ( <i>Scopus Indexed Journal</i> )
2	2017	Microcantilever: An Efficient tool for Biosensing Applications ( <i>Scopus Indexed Journal</i> )
3	2016	Proposed Model of Future Battle Suit Helmet
4	2016	Design and Implementation of Generic DMA using Vhdl
5	2016	An Analysis of 16 Channel 64 User Hybrid WDM/TDM Topology in the Optiwave Simulation Environment
6	2014	Effects of planar ground plane structure on elliptical-shaped patch antenna for Wireless UWB application

### Books Publications:

S. No.	Year	Publication

### Conference Publications:

S. No.	Year	Conference	Publication
1	2016	3 <sup>rd</sup> ICRTEAT, 17-18 November-2016	Biomaterial based Implantable Device for neuromodulation
2	2016	3 <sup>rd</sup> ICRTEAT, 17-18 November-2016	Implantable Medical Devices : Envisaging trends and Applications
3	2016	3 <sup>rd</sup> ICRTEAT, 17-18 November-2016	Application of MEMS for Prevention of Bioterrorism
4	2016	National Seminar on Performance Assessment 22 October-2016	Evolving Role of Educators as Facilitators Through ICT and Academic Audit

5	2015	NCRTMS,8-9 October-2015	Modeling and Simulation of Implantable Neural Microelectrode
6	2015	NCRTMS,8-9 October-2015	A Mathematical Modeling of Acoustic Sensor as a Diagnostic Tool
7	2015	National Seminar on Economics of Make in India	Make in India and Indian semiconductor Industry: Victim of Software Boom

**Research Supervised:**

S. No.	Year	Role	Research Topic	Status

**Patents:**

S. No.	Name	Status

**Award and Honours:**

S. No.	Title	Activity/Event	Given by	Year
(1)	Research Bursary Scholarship for course in MEMS/NEMS	To pursue research in Italy  To Pursue higher study	Italian Ministry of foreign affairs  Zobelle Holding, Italia	2004  2007

**Professional Affiliation:**

S. No.	Designation	Organization
1	Member	IEEE
2	Member	ACM
3	LM	ISTE
4	Member	CSI-India
5	Member	IETE

