



Call for Participation in TEQIP-III Sponsored  
One Week Workshop On  
"Advances in Computer Networks (ACN-2018)"

Organized by Department of Computer Science & Engineering, VNIT, Nagpur

Date: December 10-14, 2018

(Registration Deadline: 7<sup>th</sup> December, 2018)

<p><b>Introduction</b></p> <p><b>VNIT:</b></p> <p>Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. It is named in the memory of Bharat Ratna Shri Mokshgundam Visvesvaraya. The Institute offers under graduate &amp; post graduate courses in various disciplines of Engineering &amp; Technology. Apart from imparting professional education, the Institute has been extending available expertise to various industries located in and around Nagpur. The Department of Computer Science &amp; Engineering is actively involved in R&amp;D as well as consultancy projects and has collaborations with several industries, academic institutes and R&amp;D organizations in the country. The department has Parallel Computing Research laboratory equipped with the state of art tools and platforms.</p> <p><b>CSE:</b></p> <p>The Department of Computer Science &amp; Engineering came into being in 1987. It offers under-graduate and post-graduate programs. Currently, there are 35 Full Time PhD students enrolled in the department in the areas of parallel computing, real time &amp; distributed systems, cloud computing, networks and Bio informatics. The department has well qualified and motivated faculty members and support staff. The laboratories are adequately equipped with state-of-the-art facilities. The department is actively involved in R&amp;D as well as consultancy projects and has collaborations with several industries, academic institutes and R&amp;D organizations in the country. The students of the department are consistently delivering very good performance in various areas like post-graduation, research, placement in dream companies, acquiring prizes in various context etc.</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"><li>• To address Computer Networking requirements in Scientific &amp; Engineering domain.</li><li>• To give exposure to Laboratory sessions on various networking tools.</li><li>• Exposure to modern teaching techniques using flipped class model.</li></ul>	<p><b>Workshop Coordinators</b></p> <ul style="list-style-type: none"><li>• Dr. D. D. Shrimankar, Asst. Professor, CSE, VNIT, Nagpur</li><li>• Dr. Shailendra Shrivastav Professor &amp; Head CSE SATI, Vidisha</li></ul>
<p><b>Workshop Venue</b></p> <p>Smart Class Room (LH-II) Department of Computer Science &amp; Engineering, VNIT Nagpur.</p>	<p><b>Important Dates</b></p> <ul style="list-style-type: none"><li>• Workshop Dates : 10<sup>th</sup> – 14<sup>th</sup> Dec, 2018</li><li>• Registration Deadline : 7<sup>th</sup> Dec, 2018, 5:30pm</li></ul>
<p><b>Target Audience</b></p> <p>Faculty, Research Scholars and M. Tech. Students of Science &amp; Engineering Departments.</p>	<p><b>Workshop Registration</b></p> <ul style="list-style-type: none"><li>• Participants are requested to visit institute website <a href="http://www.vnit.ac.in">http://www.vnit.ac.in</a></li><li>• Once the registration is confirmed, the details will be mailed to the participants.</li><li>• No TA/DA will be provided.</li><li>• Registration will be done strictly on First Come First Serve (FCFS) basis.</li><li>• Limited accommodation is available on nominal payment basis in hostels (girls/boys).</li></ul> <p><b>Workshop Fee Structure</b></p> <ul style="list-style-type: none"><li>• No Registration Fees.</li></ul>
	<p><b>Contact Information</b></p> <p>Email: <a href="mailto:deeptishrimankar@gmail.com">deeptishrimankar@gmail.com</a> Phone No: +91-712-2801023 or 9860606477</p> <p><b>Workshop Contents</b></p> <ul style="list-style-type: none"><li>• WiFi, CSMA/CA</li><li>• WiFi simulations in ns3</li><li>• Examining IP packet structure, fragmentation using wireshark</li><li>• Understanding ARP and DHCP through wireshark</li><li>• Experiments using ICMP</li><li>• Understanding TCP connection formation</li><li>• TCP Tahoe and Reno performance study using ns3</li><li>• Using dig, wget, wireshark to learn DNS and WWW (Theory and Lab)</li><li>• Using BodhiTree to teach a flipped class on Computer Networks (lab)</li></ul> <p><b>Teaching Faculty</b></p> <p>Faculties from IIT Bombay, NIT Warangal and from Department of CSE, VNIT, Nagpur</p>