Scheme of Studies

Master of Technology
Electronics and Communication Engineering
2021

Department of EECE

SCHOOL OF ENGINEERING & TECHNOLOGY

THE NORTHCAP UNIVERSITY, GURGAON
(Established under Haryana Govt. Notification No. Leg. 32/2006-HARYANA ACT No.25 of 2009)
Scheme of Studies
M.Tech in Electronics and Communication Engineering

Department of EECE offers the following programs during the academic year 2021-22:

Master of Technology (M.Tech.) in Electronics and Communication Engineering with specialization in
- Communication Engineering
- VLSI Design

- M.Tech Part Time (Course Duration - 3 years)
  A specially designed three years program for working professional with flexible teaching pedagogy and flexible credit-based system to ensure smooth learning along with the routine office work. The whole scheme is uniformly spread over 3 years covering 6 semesters.
## Department of EECE

**M. Tech in Electronics and Communication Engineering**
*(With specialization in Communication Engineering / VLSI Design)*

**2021**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Lecture Course</th>
<th>L</th>
<th>T</th>
<th>P</th>
<th>Week Cont. Hrs</th>
<th>Credits</th>
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<tbody>
<tr>
<td>I</td>
<td>ECL513</td>
<td>Machine Learning 2-0-2(3)</td>
<td>ECL523 Digital VLSI Design 2-1-0(3)</td>
<td>ECL508 Wireless and Mobile communication 2-1-0(3)</td>
<td>ECP510 Laboratory Training I 0-0-4 (2)</td>
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<td>II</td>
<td>ECL570</td>
<td>Internet of Things 2-0-2(3)</td>
<td>ECL527 Digital System Design with Verilog HDL 2-1-0(3)</td>
<td>ECL501 Digital Signal Processing 2-1-0(3)</td>
<td>ECP518 Laboratory Training II 0-0-4(2)</td>
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<td>III</td>
<td>ECL601</td>
<td>Cloud Computing 2-1-0(3)</td>
<td>*Open Elective-1 2-1-0 (3)</td>
<td>ECCS09 Seminar (Specialization based) 0-0-4(2)</td>
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<td>IV</td>
<td>ECD512</td>
<td>Minor Project (Specialization based) 0-0-6(3)</td>
<td>MAL616 Research Methodology 2-1-0(3)</td>
<td>ECL603 Technical Writing Skills 2-0-0 (2)</td>
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<td>V</td>
<td>ECD605</td>
<td>Dissertation (Phase-1) (Specialization based) 0-0-12(6)</td>
<td>*Open Elective-2 2-1-0 (3)</td>
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<td>VI</td>
<td>ECD602</td>
<td>Dissertation (Phase-2) (Specialization based) 0-0-20(10)</td>
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*Open electives can be chosen from the list of Open Elective courses offered by the University. These may be run as Regular or MOOC.