Electronics and Communication Engineering

1st Sem	2nd Sem
 Engineering Foundation-I (Computer Programming) (L-T-P: 2-0-4) Engineering Mathematics-I (Calculus and Transform) (L-T-P: 4-0-0) Environmental Studies (L-T-P: 2-0-2) Engineering Drawing & Visualization (L-T-P: 0- 0-4) Physics-I (L-T-P: 3-0-2) Chemistry-I (L-T-P: 3-0-2) English in Practice (Non-Credit) (L-T-P: 2-0-2) 	 Engineering Foundation-II (Data Structure) (L-T- P: 3-0-2) Product Realization (L-T-P: 0-0-4) Engineering Mathematics-II (Probability and Statistics) (L-T-P: 4-0-0) Principles of Economics (L-T-P: 2-0-0) Physics-II/ Chemistry-II/ Biology (L-T-P: 3-0-2) Introduction to Electronics (L-T-P: 2-0-2)
	Total credit: 19
Total Credit: 21	
3rd Sem	4th Sem
 Digital Logic and Systems Design (L-T-P: 3-0-2) Engineering Foundation-III (Artificial Intelligence) (L- T-P: 3-0-0) Humanities and Social Sciences (L-T-P: 2-0-0) Linear Algebra (L-T-P: 3-1-0) Network Analysis & Synthesis (L-T-P: 3-0-2) Semiconductor Devices & Synthesis (L-T-P: 3-0-2) Total Credits: 21 	 Computer Architecture (L-T-P: 3-0-2) Professional Practice & Ethics (L-T-P: 1-0-2) Signal and Systems (L-T-P: 3-0-2) Engineering Foundation-IV Numerical Methods (L-T-P: 3-0-2) Engineering Foundation -V Analog Electronics (L-T-P: 3-1-0) Principal of Communications (BE1) (L-T-P: 3-0-2) Optional Course Total Credits: 20

5th Sem	6th Sem
 Principle of Communication (L-T-P: 4-0-0) EMFT (L-T-P: 4-0-0) Control Systems (BE2) (L-T-P: 3-0-2) Digital Signal Processing (L-T-P: 3-0-2) Microprocessors (L-T-P: 3-0-2) Optional Course * Total Credits: 20	 Introduction to VLSI design (L-T-P: 3-0-2) Technical Writing (L-T-P: 2-0-0) Antenna and Wave Propagation (BE3) (L-T-P: 4-0-0) Microwave Devices and Circuits (L-T-P: 3-0-2) Wireless Communication (L-T-P: 3-0-2) Project Oriented Course/Independent Study (L-T-P: 3-0-0) Optional Course* Total Credits: 19
 7th Sem Project (Engineering Specific) (Credits: 6) Fibre Optic Communication/Embedded Systems (BE4) (L-T-P:3-0-2/L-T-P: 4-0-0) Master Core 1 (L-T-P: 3-0-0) Master Core 2 (L-T-P: 3-0-0) Master Specialization 1 (L-T-P: 3-0-2) Total Credits: 19	8th Sem See the table below for MS/M.Tech Total credits: 15

9th Sem	10 th Sem
See the table below MS/M.Tech	See the table below MS/M.Tech
Total credits: 15	Total credits: 15

Semester	Coursework for SoE Program for M.Tech (CSE/ RF/VLSI) (45 credits)
8th	Project/Independent Study
	3 Credits
	Master Specialization- II
	3 Credits
	Master Specialization- III
	3 Credits
	Master Specialization- IV
	3 Credits
	Master Specialization- V
	3 Credits
	Total 15 Credits
9 th	Dissertation On-campus /in-Industry (Credits: 15)*
10th	Dissertation On-campus /in-Industry (Credits: 15)*
	Student needs to find a qualified Industry option himself/herself for the dissertation at industry.
	Dean SoE/Project coordinator needs to approve the Dissertation at Industry based on the Company profile and the work profile given to the student. Only after approval student is allowed to go for industry dissertation.
	The choice of student in 9 th semester will continue in 10 th semester for the dissertation place (Academia or Industry).

Semester	Coursework for M.S. and other Program offered by a School/Center in JNU (45 credits)
8 th	Master Specialization- II
	3 Credits
	Master Specialization- III
	3 Credits
	Master Specialization- IV
	3 Credits
	Master Specialization- V
	3 Credits
	Master Specialization-VI
	3 Credits

	Total 15 Credits
9th	Master Specialization-VII
	3 Credits
	Master Specialization-VIII
	3 Credits
	Dissertation 9 Credits
	Total 15 Credits
10th	Dissertation (15 credits)