

**Department of Electronics and Telecommunication Engineering
SGGS Institute of Engineering and Technology, Nanded**

**List of Equivalent Subjects from SWAYAM/NPTEL for Credit Transfer for
Second Year**

Sr. No.	Institute Course		Details of Course from SWAYAM/NPTEL
	Course Code	Title of the Course	
1.	BSC-271	Mathematics-III	No equivalence
2.	PCC-EC-201	Electronic Devices and Circuits	https://swayam.gov.in/nd1_noc20_ee85/preview
3.	PCC-EC-202	Digital Electronics and Microprocessors	https://nptel.ac.in/content/syllabus_pdf/117106114.pdf
4.	PCC-EC-203	Network Theory	https://nptel.ac.in/courses/108/105/108105159/
5.	ESC-EC-201	Numerical Methods	https://nptel.ac.in/courses/127/106/127106019/ https://swayam.gov.in/nd1_noc20_ge20/preview https://swayam.gov.in/nd1_noc20_ma33/preview
6.	MAC-277	Indian Constitution	No equivalence
1.	BSC-276	Mathematics-IV	No equivalence
2.	PCC-EC-211	Communication Engineering Principles	https://nptel.ac.in/courses/117/106/117106090/
3.	PCC-EC-212	Analog Circuits and Design	https://nptel.ac.in/courses/108/102/108102095/
4.	PCC-EC-213	Microcontrollers and Applications	https://nptel.ac.in/courses/117/104/117104072/
5.	ESC-EC-202	Data Structures	https://swayam.gov.in/nd1_noc20_cs70/preview https://nptel.ac.in/courses/106/106/106106145/
6.	HMC-278	Human Values and Professional Ethics	No equivalence

List of Equivalent Subjects from SWAYAM/NPTEL for Credit Transfer for Third Year

Sr. No.	Institute Course		Details of Course from SWAYAM/NPTEL
	Course Code	Title of the Course	
1.	PCC-EC-301	Electromagnetic Engineering	https://swayam.gov.in/nd1_noc20_ee93/preview
2.	PCC-EC-302	Control Systems	https://swayam.gov.in/nd1_noc20_ee90/preview
3.	PCC-EC-303	Communication Systems Theory	https://swayam.gov.in/nd1_noc20_ee16 https://nptel.ac.in/courses/117/102/117102059/
4.	PCC-EC-304	Signals and Systems	https://swayam.gov.in/nd1_noc20_ee15/preview
<u>Elective-I</u>			
5.	PEC-EC-305	Probability and Statistics	https://nptel.ac.in/courses/111/102/111102111/
6.	PEC-EC-306	Computer Organization	https://nptel.ac.in/courses/106/106/106106166/
7.	PEC-EC-307	Bio Medical Signal Processing	https://nptel.ac.in/courses/108/105/108105101/
8.	PEC-EC-308	Microelectronics	https://swayam.gov.in/nd1_noc20_ee85/preview https://nptel.ac.in/courses/108/107/108107142/
9.	PEC-EC-309	DSP Processors	
10.	PEC-EC-310	Linear Algebra	https://nptel.ac.in/courses/111/106/111106135/
11.	PEC-EC-311	Antenna and Wave Propagation	No equivalence
12.	PEC-EC-312	Digital Telephony	No equivalence
13.	PEC-EC-313	Digital System Design with Verilog	https://nptel.ac.in/courses/117/108/117108040/ https://nptel.ac.in/courses/117/105/117105080/
14.	PEC-EC-314	Physiology for Engineers	No equivalence
15.	HMC392	Industrial Management for Engineers	No equivalence
1.	PCC-EC-316	Linear Integrated Circuits	
2.	PCC-EC-317	Digital Communication	https://nptel.ac.in/courses/108/104/108104098/ https://nptel.ac.in/courses/108/102/108102096/
3.	PCC-EC-318	Digital Signal Processing	https://nptel.ac.in/courses/108/105/108105055/ https://nptel.ac.in/courses/117/102/117102060/# https://nptel.ac.in/courses/108/106/108106151/
4.	PCC-EC-319	Embedded Systems	No equivalence
<u>Elective-II</u>			
5.	PEC-EC-320	Machine Learning	https://nptel.ac.in/courses/117/105/117105101/
6.	PEC-EC-321	Computer Security	https://nptel.ac.in/courses/106/105/106105162/
7.	PEC-EC-322	Digital VLSI Design	https://swayam.gov.in/nd1_noc20_ee29/preview https://nptel.ac.in/courses/108/107/108107129/
8.	PEC-EC-323	Robotics	https://swayam.gov.in/nd1_noc20_de11/preview https://swayam.gov.in/nd1_noc20_me56/preview https://www.coursera.org/specializations/robotics
9.	PEC-EC-324	Satellite Communication	https://nptel.ac.in/courses/117/105/117105131/
10.	PEC-EC-325	Power Electronics	https://swayam.gov.in/nd1_noc20_ee97/preview https://nptel.ac.in/courses/108/102/108102145/ https://nptel.ac.in/courses/108/105/108105066/
11.	PEC-EC-326	Consumer Electronics	No equivalence
12.	PEC-EC-327	System Software and Operating Systems	https://nptel.ac.in/courses/106/102/106102132/
13.	PEC-EC-328	Electronic Design Automation Tools	https://nptel.ac.in/courses/106/105/106105083/
14.	PEC-EC-329	Electronic Materials and Devices	https://swayam.gov.in/nd1_noc20_mm02/preview

List of Equivalent Subjects from SWAYAM/NPTEL for Credit Transfer for B.Tech Final Year

Sr. No.	Institute Course		Details of Course from SWAYAM/NPTEL
1.	Course Code	Title of the Course	NPTEL: Course id/link
2.	EC452	Data Communication and Network	https://swayam.gov.in/nd1_noc20_cs86/preview
3.	EC359	Embedded System	106105193 https://swayam.gov.in/nd1_noc20_cs15/preview
4.	EC451	Microwave and Satellite Communication	https://swayam.gov.in/nd1_noc20_ee61/preview
5.	EC454N	Digital Image Processing	https://swayam.gov.in/nd1_noc20_ee75/preview
6.	EC361D	E-II : Digital VLSI Design	https://swayam.gov.in/nd1_noc20_ee76/preview
7.	EC355C	E-I: Biomedical Signal Processing	https://swayam.gov.in/nd1_noc20_ee41/preview
8.	EC454D	RF Devices and Circuits	noc20-ee35 https://swayam.gov.in/nd1_noc20_ee35/preview
9.	EC355D	E-I: Mechatronics	No equivalence
10.	EC361B	E-II: Pattern Recognition	https://swayam.gov.in/nd1_noc20_mg37/preview
11.	EC454C	Mobile and Wireless Communication	noc20-ee33 https://swayam.gov.in/nd1_noc20_ee33/preview
12.	EC453	Industrial Organization	https://swayam.gov.in/nd1_noc20_mg56/preview
13.	EC454I	Analog VLSI Design	No equivalence
14.	EC454P	Multimedia Systems	https://swayam.gov.in/nd2_nou20_cs05/preview
15.	EC454S	Neural Networks and Fuzzy Logic	https://swayam.gov.in/nd1_noc20_ma48/preview
16.	EC355E	E-I: DSP Processors	https://swayam.gov.in/nd1_noc20_ee21/preview
17.	EC454A	Optical Communication Engg.	https://swayam.gov.in/nd1_noc20_ee48/preview
18.	EC454K	VLSI Signal Processing	No equivalence