SCHOOL OF ENGINEERING AND TECHNOLOGY

AMBI, TALEGAON, PUNE

Department of Electronics & Telecommunication Engineering

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**B. TECH._ELECTRONICS AND TELECOMMUNICATION ENGINEERING
_PROGRAMME FOR ACADEMIC YEAR 2020-21**

BATCH 2020 - 2024
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SUBJECT BASKET

FIRST YEAR SEMESTER - I	FIRST YEAR SEMESTER - II	SECOND YEAR SEMESTER - III	SECOND YEAR SEMESTER - IV
Electronics & Telecommunication Engineering	*Electronics & Telecommunication Engineering*	*Electronics & Telecommunication Engineering*	*Electronics & Telecommunication Engineering*
Engineering Mathematics-I	Engineering Mathematics-II	Engineering Mathematics-III	Engineering Mathematics IV
Engineering Physics / Engineering Chemistry	Engineering Physics / Engineering Chemistry	Electronic Devices and circuits	Electromagnetic Field Theory & Transmission Lines
Engineering Graphics	Engineering Mechanics	Digital logic design	Analog Communication Engineering
Basic Electrical Engineering	C Programming	Feedback Control System	Discrete Time signal Processing
Basic Workshop Practices - I	English for Engineers	Electrical Networks	Linear Integrated circuits and Applications
Business Analytics	Basic Workshop Practices - II	Electronic Workshop	
	Environmental Studies		
	Economics for Engineers		

*The School/College has all the rights to revise the syllabus/curriculum at any time.

HIRD YEAR SEMESTER - V	THIRD YEAR SEMESTER - VI	FOURTH YEAR SEMESTER - VII	FOURTH YEAR SEMESTER - VIII
Electronics & Telecommunication Engineering	*Electronics & Telecommunication Engineering*	*Electronics & Telecommunication Engineering*	*Electronics & Telecommunication Engineering*
Computer Networks	Antenna Theory and Design	Optical Communication	Project stage / Internship
Digital Communication	Stream Elective-I	Stream Elective IV	
Digital Image Processing	Stream Elective-II	Stream Elective V	
Microcontrollers and Application	Stream Elective-III	Stream Elective VI	
Data Structures and Algorithms	Open Elective-I	Open Elective-II	
Professional Communication and Ethics lab		Mini Project -I	

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STREAM & OPEN ELECTIVES (SEMESTER 6&7)
1. **Electronics and Telecommunication Engineering (Generic)**
2. **Wireless Sensor Networks (WSN)**

	Stream Elective I - 602			Stream Elective II - 603	
S. N.	**SEM 6**	**Code**	**S. N.**	**SEM 6**	**Code**
1	Wireless & Mobile Comm*	602A	1	Advanced Technologies in Wireless Networks *	603A
2	Statistical Signal Processing	602B	2	Embedded Systems	603B
3	RF Design	602C	3	Machine Learning	603C
4	Radar Engineering	602D	4	Software Defined N/W	603D

Stream Elective III - 604			Open Elective I - 605		
S. N.	SEM 6	Code	S. N.	SEM 6	Code
1	Sensor & signal conditioning*	604A	1	Computer Aided PCB Design	605A
2	Multimedia Systems	604B	2	Network Security	605B
3	Microwave Engineering	604C	3	EV Batteries, Standards& Testing	605C
4	Data Base Manage System	604D	4	PLC & SCADA Applications	605D
Stream Elective IV - 702			**Stream Elective V - 703**		
S. N.	SEM 7	Code	S. N.	SEM 7	Code
1	Adhoc & wireless sensor network *	702A	1	Network Protocol and routing Algorithm *	703A
2	Internet of Things (IoT)	702B	2	Biomedical Signal Processing	703B
3	Introduction to Deep learning	702C	3	Satellite Communication networks	703C
4	Advanced Mobile Comm.	702D	4	Big Data Analysis	703D
Stream Elective VI - 704			**Open Elective II - 705**		
S. N.	SEM 7	Code	S. N.	SEM 7	Code
1	Cognitive Radio *	704A	1	Project Management	705A
2	Speech Processing	704B	2	Intellectual Property Rights	705B
3	Robotics	704C	3	Entrepreneurships & business start-ups	705C
4	Data Compression and Encryption	704D	4	Cyber and Data Laws	705D

*Note :- * indicates compulsory subjects for specialization in Wireless Sensor Networks*

STREAM & OPEN ELECTIVES (SEMESTER 6&7)
3. Internet of Things (IoT)

S. N.	Stream Elective I - 602 SEM 6	Code	S. N.	Stream Elective II - 603 SEM 6	Code
1	Machine Learning for IoT	602A	1	Embedded IOT Application Development	603A
2	Artificial Intelligence	602B	2	Advanced Sensors	603B
3	Automotive Sensors	602C	3	Machine Learning	603C
4	IoT Controller	602D	4	Software Defined Network	603D
	Stream Elective III - 604			**Open Elective I - 605**	
S. N.	**SEM 6**	**Code**	**S. N.**	**SEM 6**	**Code**
1	Cloud Deployment Models in IOT	604A	1	Computer Aided PCB Design	605A
2	Mechatronics	604B	2	Network Security	605B
3	Cloud Computing Architecture	604C	3	EV Batteries, Standards& Testing	605C
4	Data base management system	604D	4	PLC & SCADA Applications	605D
	Stream Elective IV - 702			**Stream Elective V - 703**	
S. N.	**SEM 7**	**Code**	**S. N.**	**SEM 7**	**Code**
1	Industrial IoT and Application	702A	1	Network Protocol and routing Algorithm	703A
2	Deep Learning	702B	2	Biomedical Sensors	703B
3	5G wireless System	702C	3	Neural Networks	703C
4	Wired and Wireless System using IoT	702D	4	Big Data Analysis	703D

Stream Elective VI - 704			Open Elective II - 705		
S. N.	SEM 7	Code	S. N.	SEM 7	Code
1	Robotics Process Automation	704A	1	Project Management	705A
2	IoT Protocols	704B	2	Intellectual Property Rights	705B
3	IOT Sensor, Devices & Components	704C	3	Entrepreneurships & business start-ups	705C
4	Data Compression and Encryption	704D	4	Cyber and Data Laws	705D