

PEOPLE'S UNIVERSITY, BHOPAL



Faculty of Engineering (Choice Based Credit System) Course Details and Scheme of Examination

(w.e.f. from Academic Session 2021-22 onwards)

PROGRAMME: Bachelor of Technology

BRANCH: Electronics & Communication Engineering with Specialization in IoT

SECOND YEAR (III SEMESTER)

Course Code	Name of the Courses	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (F/V)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/Attendance/Quiz	Internal Exam						
CBEO-301	Computer System Organization	C	70	30	-	-	-	-	100	3	1	0	04	F
CBEO-302	Control System	C	70	30	-	-	-	-	100	3	1	0	04	F
CBEO-303	Electronic Devices	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-304	Network Analysis	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-305	Electronics Workshop	E	35	15	-	35	15	-	100	1	0	2	02	V
CBEO-306	C & C++ Programming	C	-	-	-	-	-	50	50	0	0	2	01	F
CBTE-307	*NCC-III	E	35	15	-	35	15	-	100	1	0	12	07	V
CBTE-308	Introduction to Internet of Things	E	70	30	-	35	15	-	150	2	0	2	03	V
CBTE-309	Quantitative Aptitude & Logical Reasoning	E	-	-	50	-	-	-	50	1	0	0	01	V
CBTE-310	NSS-II/NSO-II	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-311	Music Vocal- II/ Music Instruments-II	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-312	Social Engineering	B	-	-	50	-	-	-	50	1	0	0	00	F
Total			420	180	100	175	75	150	1100	18	04	26	34	

Note: Student must earn 26 credits to complete this semester. (*For NCC-III 05 credits will be allotted after successful completion of camp.)

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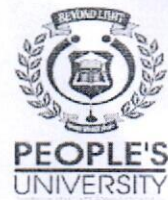
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PEOPLE'S UNIVERSITY, BHOPAL



Faculty of Engineering (Choice Based Credit System) Course Details and Scheme of Examination

(w.e.f. from Academic Session 2021-22 onwards)

PROGRAMME: Bachelor of Technology

BRANCH: Electronics & Communication
Engineering with Specialization in IoT

SECOND YEAR (IV SEMESTER)

Course Code	Name of the Courses	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (FN)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/Attendance/Quiz	Internal Exam						
CBTE-401	Entrepreneurship and IPR	C	70	30	-	-	-	-	100	3	0	0	03	F
CBEO-402	Digital Circuits & System	C	70	30	-	35	15	-	150	3	0	2	04	F
CBEO-403	Analog Circuits	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-404	Analog & Digital Communication	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-405	Electronic Instrumentation	C	35	15	-	35	15	-	100	2	0	2	03	F
CBEO-406	Simulation Lab	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-407	NCC -IV	E	35	15	-	35	15	-	100	2	0	2	03	V
CBTE-408	Research Methodology	E	-	-	50	-	-	-	50	0	0	2	01	V
CBTE-409	Environmental Science	B	-	-	100	-	-	-	100	1	0	0	00	F
CBTE-410	Massive Open Online Courses (MOOCs)-I	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-411	Sociology	E	-	-	50	-	-	-	50	1	0	0	01	V
CBTE-412	Fine Arts-II	E	-	-	-	-	-	50	50	0	0	2	01	V
Total			350	150	200	175	75	150	1100	18	02	18	28	
NCC V- Camp/ Industrial Training		E/C	To be completed after fourth semester. Its evaluation/credit to be added in FIFTH SEMESTER											

Note: Student must earn 24 credits to complete this semester.

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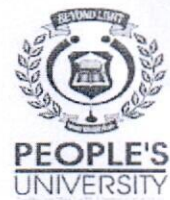
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PEOPLE'S UNIVERSITY, BHOPAL



Faculty of Engineering (Choice Based Credit System) Course Details and Scheme of Examination *(w.e.f. from Academic Session 2021-22 onwards)*

PROGRAMME: Bachelor of Technology

BRANCH: Electronics & Communication Engineering with Specialization in IoT

THIRD YEAR (V SEMESTER)

Course Code	Name of the Courses	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (F/V)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/ Attendance/Quiz	Internal Exam						
Refer Table -I	Open Elective (Refer Table- I)	E	70	30	-	-	-	-	100	3	0	0	03	F
CBEO-502	Electromagnetic Theory	C	70	30	-	-	-	-	100	3	0	0	03	F
CBEO-503	Signal & System	C	70	30	-	-	-	-	100	3	1	0	04	F
CBEO-504	Microprocessor & Microcontroller	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-505	Principles of Sensors and Data Acquisition	C	70	30	-	35	15	-	150	3	1	2	05	F
CBEO-506	IoT System Architecture	E	70	30	-	35	15	-	150	3	0	2	04	V
CBTE-507	*NCC-V	E	35	15	-	35	15	-	100	1	0	12	07	V
CBTE-508	Accounting and Finance Management	E	35	15	-	-	-	-	50	2	0	0	02	V
CBEO-509	IC Application Lab	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-510	Industrial Training	C	-	-	-	100	-	-	100	0	0	2	01	F
CBTE-511	Indian Constitution	B	-	-	50	-	-	-	50	1	0	0	00	F
Total			490	210	50	240	60	50	1100	22	03	22	35	

Note: Student must earn 28 credits to complete this semester. (For *NCC-V 05 credit will be allotted after successful completion of camp.)

Table -I

Course Code	Name of Open Elective Course	Course Code	Name of Open Elective Course
CBTE-5101	Gender Equality	CBTE-5103	Ethical hacking and Cyber Security
CBTE-5102	Human Health & Nutrition	CBTE-5104	Industrial Safety & Environment

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PEOPLE'S UNIVERSITY, BHOPAL



Faculty of Engineering (Choice Based Credit System) Course Details and Scheme of Examination

(w.e.f. from Academic Session 2021-22 onwards)

PROGRAMME: Bachelor of Technology

BRANCH: Electronics & Communication Engineering with Specialization in IoT

THIRD YEAR (VI SEMESTER)

Course Code	Name of the Courses	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (F/V)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/Attendance/Quiz	Internal Exam						
Department Elective -II	Department Elective -I	E	70	30	-	-	-	-	100	3	0	0	03	F
CBE0-602	Wireless Technologies for IoT	C	70	30	-	-	-	-	100	3	1	0	04	F
CBE0-603	Sensor Technology	C	70	30	-	35	15	-	150	3	1	2	05	F
CBE0-604	Microwave Engineering	C	70	30	-	35	15	-	150	3	1	2	05	F
CBE0-605	Artificial Intelligence with Python	E	70	30	-	35	15	-	150	2	0	2	03	V
CBTE-606	Human Resource Management	E	35	15	-	-	-	-	50	2	0	0	02	V
CBTE-607	NCC - VI	E	35	15	-	35	15	-	100	2	0	2	03	V
CBTE-608	Company and Compensation law	E	35	15	-	-	-	-	50	2	0	0	02	V
CBE0-609	Verilog HDL	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-610	Universal Human Ethics	B	-	50	50	-	-	-	100	2	1	0	03	F
Total			455	245	50	140	60	50	1000	22	04	10	31	

Note: Student must earn 24 credits to complete this semester

Table -II

Course Code	Name of Department Elective Course I	Course Code	Name of Department Elective Course I
CBE0-6101	Information Theory and Coding	CBE0-6103	Digital Image Processing
CBE0-6102	Embedded Sensing Technologies	CBE0-6104	Neural Network

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PEOPLE'S UNIVERSITY, BHOPAL



**Faculty of Engineering (Choice Based Credit System)
Course Details and Scheme of Examination**

(w.e.f. from Academic Session 2021-22 onwards)

PROGRAMME: Bachelor of Technology

**BRANCH: Electronics & Communication
Engineering with Specialization in IoT**

FOURTH YEAR (VII SEMESTER)

Course Code	Name of the Courses	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (F/V)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/Attendance/Quiz	Internal Exam						
Refer Table -III	Department Elective -II	E	70	30	-	-	-	-	100	3	0	0	03	F
Refer Table -III	Department Elective -III	E	70	30	-	-	-	-	100	3	0	0	03	F
CBE0-703	CMOS VLSI Design	C	70	30	-	-	-	-	100	3	0	0	03	F
CBE0-704	Antenna & Wave Propagation	C	70	30	-	35	15	-	150	3	0	2	04	F
CBE0-705	Application of IoT	C	70	30	-	35	15	-	150	3	1	2	05	F
CBE0-706	Web Technologies	C	70	30	-	-	-	-	100	3	1	0	04	F
CBE0-707	Innovative Project Lab	C	-	-	-	-	-	50	50	0	0	2	01	F
CBTE-708	Introduction to MATLAB	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-709	Psychology	E	-	-	50	-	-	-	50	1	0	0	01	V
CBTE-710	Massive Open Online Courses (MOOCs) -II	E	-	-	-	-	-	50	50	0	0	2	01	V
CBTE-711	Professional Ethics and Proficiency	B	-	-	-	35	15	-	50	0	0	2	01	F
CBTE-712	GD/Seminar	E	-	-	-	-	-	50	50	0	0	2	01	V
Total			420	180	50	105	45	200	1000	19	02	14	28	

Note: Student must earn 26 credits to complete this semester.

Table -III

Course Code	Name of Department Elective Course II	Course Code	Name of Department Elective Course III
CBE0-7101	Cellular & Mobile Communication	CBE0-7201	Advanced Data Networks
CBE0-7102	Wireless & Ad-hoc Network	CBE0-7202	Optical Communication
CBE0-7103	Satellite Communication	CBE0-7203	Microelectronics Chip Fabrication
CBE0-7104	Biomedical Instrumentation	CBE0-7204	Nanoelectronics

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PROGRAMME: Bachelor of Technology

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FOURTH YEAR (VIII SEMESTER)

Course Code	Name of the Course	Course Mode (B/C/E)	Maximum Marks Allotted						Total Marks	Teaching Contact Hours			Total Credits	Component (F/V)
			Theory			Practical				L	T	P		
			End Sem	MST/Attendance Assignment	Internal Exam	End Sem	Lab Performance/Attendance/Quiz	Internal Exam						
CBEO-801	Project Internship and Viva-Voce	C	-	-	-	300	200	-	500	0	0	20	10	F
Total			-	-	-	300	200	-	500	0	0	20	10	

Note: Student must earn 10 credits to complete this semester.

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PEOPLE'S UNIVERSITY, BHOPAL**

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PEOPLE'S UNIVERSITY, BHOPAL**

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