

New Scheme & syllabus

RASHTRASANTUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

Scheme of Teaching & Examination of Bachelor of Technology

V Semester B.Tech . (Industrial IOT)

Sr. No.	Course Code	Category	Course Name	Hours/ Week			Credits	Maximum Marks						Minimum PassingMarks	
				Theory		Practical		Total							
				L	T	P		Internal	University	Internal	University		Theory	Practical	
1	BTechIOT501T	Professional core courses	IOT Architecture & Protocols	3	0	0	3.00	30	70			100	45		
2	BTechIOT501P	Professional core courses	IOT Architecture & Protocols Lab	0	0	2	1.00			25	25	50		25	
3	BTechIOT502T	Professional Core courses	Machine Learning	3	0	0	3.00	30	70	-	-	100	45		
4	BTechIOT502P	Professional core courses	Machine Learning Lab	0	0	2	1.00			25	25	50	45	25	
5	BTechIOT503T	Professional core courses	Cloud Computing	3	0	0	3.00	30	70	-	-	100	45		
6	BTechIOT504T	Professional Core course	Signal Processing	3	1	0	4.00	30	70	-	-	100	45		
7	BTechIOT504P	Professional Core course	Signal Processing Lab	0	0	2	1.00	-	-	25	25	50		25	
8	BTechIOT505T	Professional Elective Course	Elective- I	3	0	0	3.00	30	70			100	45		
9	BTechIOT506T	HSMC	Effective Technical Communication	2	0	0	2.00	15	35			50	23		
Total				17	1	6	21	165	385	75	75	700			

Elective I- 1. Data Visualisation 2. Wireless Communication Technologies 3. Web and Social Media Analytics 4. ARM Processor & its Essentials

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Dr S.S. Shrivastava

Dr. L. Patil

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

Scheme of Teaching & Examination of Bachelor of Technology

VI Semester B.Tech. (Industrial IOT)

Sr. No.	Course Code	Category	Course Name	Hours / Week			Credits	Maximum Marks					Minimum Passing Marks	
								Theory		Practical		Total		
				L	T	P		Internal	University	Internal	University		Theory	Practical
1	BTechIOT601T	Professional core courses	Mobile & Web Application Development	3	0	0	3.00	30	70	-	-	100	45	
2	BTechIOT601P	Professional core courses	Mobile & Web Application Development Lab	0	0	2	1.00			25	25	50		25
3	BTechIOT602T	Professional Core courses	Digital Modeling and System Design	3	1	0	4.00	30	70	-	-	100	45	
4	BTechIOT602P	Professional core courses	Digital Modeling and System Design	0	0	2	1.00			25	25	50		25
5	BTechIOT603T	Professional core courses	Big data Analytics	3	0	0	3.00	30	70	-	-	100	45	
6	BTechIOT603P	Professional core courses	Big data Analytics	0	0	2	1.00	-	-	25	25	50		25
7	BTechIOT604T	Professional Elective Course	Elective- 2	3	0	0	3.00	30	70			100	45	
8	BTechIOT605T	Open Elective	Open Elective-1	3	0	0	3.00	30	70			100	45	
9	BTechIOT606T	HSMC	Organizational Behaviour	2	0	0	Audit Course	College Assessment in grades O,A,B,C						
10	BTechIOT607P	Project Work /Internship	Mini Project /Internship	0	0	6	3.00	-	-	25	25	50	-	25
Total				17	1	12	22.00	150	350	100	100	700		

Elective II: 1. MEMS & SOC 2. Intelligent Sensor & Instrumentation 3 Robotics and Intelligent Systems 4. Block Chain & Cyber Security

Open Elective: 1. Embedded & Real Time System 2. Industry 4.0 & IoT





RASHTRASANTUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

Scheme of Teaching & Examination of Bachelor of Technology VII

Semester B.Tech. (Industrial IOT)

Sr. No.	Course Code	Category	Course Name	Hours/ Week			Credits	Maximum Marks					Minimum Passing Marks	
								Theory		Practical		Total		
				L	T	P		Internal	University	Internal	University		Theory	Practical
1	BTechIOT701T	Professional core courses	Industrial IoT	3	0	0	3.00	30	70	-	-	100	45	
2	BTechIOT702T	Professional core courses	Natural Language Processing	3	0	0	3.00	30	70	-	-	100	45	
3	BTechIOT702P	Professional core courses	Natural Language Processing Lab	0	0	2	1.00			25	25	50		25
4	BTechIOT703T	Professional Elective Course	Elective- III	3	0	0	3.00	30	70	-	-	100	45	
5	BTechIOT703P	Professional Elective Course	Elective- III	0	0	2	1.00	--	--	25	25	50		25
6	BTechIOT704T	Open Elective	Open Elective- II	3	0	0	3.00	30	70	-	-	100	45	
7	BTechIOT705P	Project Work	Project	0	0	6	3.00	-	-	50	50	100		50
Total				12	0	10	17.00	120	280	100	100	600		

Elective III: 1. PLC & SCADA 2. Digital Image Processing 3. Wireless Sensor Networks 4. Cryptography & Network Security

Open Elective II: 1. Industrial Robotics 2. Intelligent Transport System

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Scheme of Teaching & Examination of Bachelor of Technology

VIII Semester B.Tech . (Industrial IOT)

Sr. No.	Course Code	Category	Course Name	Hours/ Week			Credits	Maximum Marks					Minimum Passing Marks	
								Theory		Practical		Total		
				L	T	P		Internal	University	Internal	University		Theory	Practical
1	BTechIOT - 801T	Professional Elective Course	Elective IV	3	0	0	3.00	30	70	-	-	100	45	--
2	BTechIOT - 802T	Professional Elective Course	Elective V	3	0	0	3.00	30	70	-	-	100	45	--
3	BTechIOT - 803P	Project Work	Project	0	0	16	8.00	--	--	100	100	200	--	100
Total				6	0	16	14.00	60	140	100	100	400		

Elective IV: 1. Cyber forensic and cyber defense 2. Generative adversarial network 3. Biomedical Instrumentation 4. Computer Graphics for Virtual Reality

Elective V: 1. Deep Learning & Neural Network 2. Optical Circuits & Fibers 3. Cyber Crimes & Digital Forensics 4. Database Security and Access Control





Credit Structure for UG Program B.Tech Industrial IOT

Sr. No.	Semester	Category							Total
		BSC	ESC	HSMC	PCC	PEC	OEC	PROJ	
1.	I	09	07	03	-	-	-	-	19
2	II	09	13	-	-	-	-	-	22
3	III	04	04	02	12	-	-	-	22
4	IV	-	04	-	18	-	-	01	23
5	V	-	--	02	16	03		-	21
6	VI	-	-		13	03	03	03	22
7	VII	-	-	-	08	03	03	03	17
8	VIII	-	-	-	-	06	-	08	14
Total		22	28	07	67	15	06	15	160





