B.E. SCHEME OF EXAMINATION 2021-22
Scheme of Teaching & Examination of Bachelor of Engineering III Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		ours, leek		Credit s	Maximu	m Marks				Minimum Passing Marks	
								Theory		Practical		Total		
				L	Т	Р								
								Internal	University	Internal	University		Theory	Practical
1	BEAI&DS301T	Basic Science Course	Discrete Mathematics and Graph Theory	3	1	0	4.00	30	70	-	-	100	45	
2	BEAI&DS302T	Professional core courses	Operating Systems	3	1	0	4.00	30	70	-	-	100	45	
3	BEAI&DS303T	Professional core courses	Computer Architecture & Organization	3	0	0	3.00	30	70	-	-	100	45	
4	BEAI&DS304T	Professional core courses	Data Structures	3	1	0	4.00	30	70	-	-	100	45	
5	BEAI&DS304P	Professional core courses	Data Structures LAB	0	0	2	1.00	-	-	25	25	50		25
6	BEAI&DS305T	Professional core courses	Digital Circuits & Fundamentals of Microprocessor	3	0	0	3.00	30	70			100	45	
7	BEAI&DS305P	Professional core courses	Digital Circuits & Fundamentals of Microprocessor Lab	0	0	2	1.00	-	-	25	25	50		25
8	BEAI&DS306P	Engineering Sciences	Professional Skills I (Core Python)	0	0	2	1.00			25	25	50		25
9	BEAI&DS307T	HSMC	Universal Human Values	2	0	0	2.00	15	35			50	23	
10	BEAI&DS308T	Mandatory Course	Environmental Science	2	0	0	Audit	-	-	-	-	Audit	-	
		Total		19	3	6	23.00	165	385	75	75	700		

## B.E. SCHEME OF EXAMINATION 2021-22 Scheme of Teaching & Examination of Bachelor of Engineering IV Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		ours leek		Credit s	Maximu	m Marks				Minimum Passing Marks	
								TI	heory	Practica	I	Total		
				L	Т	Р								
								Internal	University	Internal	University		Theory	Practical
1	BEAI&DS401T	Professional core courses	Introduction to AI	3	0	0	3.00	30	70	-	-	100	45	
2	BEAI&DS402T	Professional core courses	Theory of Computation	3	1	0	4.00	30	70	-	-	100	45	
3	BEAI&DS403T	Basic Science Courses	Mathematical Foundation for Data Science	3	0	0	3.00	30	70	-	-	100	45	
4	BEAI&DS404T	Professional core courses	Object Oriented Programming with JAVA	3	0	0	3.00	30	70	-	-	100	45	
5	BEAI&DS404P	Professional core courses	Professional Skills II (Java)	0	0	2	1.00	-	-	25	25	50		25
6	BEAI&DS405T	Professional core courses	Database Management Systems	3	0	0	3.00	30	70			100	45	
7	BEAI&DS405P	Professional core courses	Database Management Systems Lab	0	0	2	1.00	-	-	25	25	50		25
8	BEAI&DS406T	Engineerin g Sciences	Microcontroller & Embedded System	3	1	0	4.00	30	70	-	-	100	45	
9	BEAI&DS406P	Engineerin g Sciences	Microcontroller & Embedded System Lab	0	0	2	1.00	-	-	25	25	50	-	25
10	BEAI&DS407T	Project Work/Internship	Internship	0	0	2	1.00			50		50		
		Total		18	2	8	24.00	180	420	125	75	800		

B.E. SCHEME OF EXAMINATION 2021-22
Scheme of Teaching & Examination of Bachelor of Engineering V Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		urs eek		Credit s	Maximu	m Marks				Minimum Passing Marks	
								Theory		Practical		Total		
				L	Т	Р								
								Internal		Interna	University		Theory	Practical
1	BEAI&DS501T	Engineerin g Sciences	Computer Communication Network	3	0	0	3.00	30	70			100	45	
2	BEAI&DS502T	Professional core courses	Design and Analysis of Algorithms	4	0	0	4.00	30	70	-	-	100	45	
3	BEAI&DS502P	Professional core courses	Design and Analysis of Algorithms lab	0	0	2	1.00			25	25	50	45	25
4	BEAI&DS503T	Professional core courses	Machine Learning Techniques	3	0	0	3.00	30	70	-	-	100	45	
5	BEAI&DS503P	Professional core courses	Advanced Python for Machine Learning Techniques Lab	0	0	2	1.00			25	25	50	45	25
6	BEAI&DS504T	Engineerin g Sciences	Internet of Things and its Application	3	0	0	3.00	30	70	-	-	100	45	
7	BEAI&DS505P	Engineerin g Sciences	Professional Skills III (Internet of Things )	0	0	2	1.00	-	-	25	25	50		25
8	BEAI&DS506T	Professional Elective Course	Elective- I	3	0	0	3.00	30	70			100	45	
9	BEAI&DS507P	HSMC	Organizational Behaviour	2	0	0	Audit							
	•	Total		18	0	6	19	150	350	75	75	650		1

Elective I- 1. NoSQL 2. Information Security 3. Wireless Communication Technologies 4. ARM Processor & its Essentials

## **B.E. SCHEME OF EXAMINATION 2021-22**

## Scheme of Teaching & Examination of Bachelor of Engineering VI Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		ours eek		Credits	Maximu	m Marks		Minimum Passing Marks			
								TI	neory	Practical		Total		
				L	Т	Р								
								Internal	University	Internal	University		Theory	Practical
1	BEAI&DS601T	Professional core courses	Deep Learning	4	0	0	4.00	30	70	-	-	100	45	
2	BEAI&DS602T	Professional core courses	Deep Learning Lab	0	0	2	1.00			25	25	50		25
3	BEAI&DS603T	Professional core courses	Business Intelligence	3	0	0	3.00	30	70	-	-	100	45	
4	BEAI&DS604T	Professional core courses	Business Intelligence Lab	0	0	2	1.00			25	25	50		25
5	BEAI&DS605T	Professional core courses	Digital System Design using Verilog	3	0	0	3.00	30	70	-	-	100	45	
6	BEAI&DS605P	Professional core courses	Professional Skills IV (Verilog )	0	0	2	1.00	-	-	25	25	50		25
7	BEAI&DS606T	Professional Elective Course	Elective 2	3	0	0	3.00	30	70			100	45	
8	BEAI&DS606P	Open Electiv e	Open Elective-1	3	0	0	3.00	30	70			100	45	
10	BEAI&DS607P	Mandatory course	Consumer Affairs	2	0		Audit					Audit		
11	BEAI&DS608T	Project Work/Internship	Mini Project /Internship	0	0	6	3.00	-	-	25	25	50	-	
	Total			18	0	12	22.00	150	350	100	100	700		

Elective II: 1. Web and Social Media Analytics 2. Block Chain and Cyber Security3. Intelligent Sensor & Instrumentation 4. Robotics and Intelligent Systems

B.E. SCHEME OF EXAMINATION 2021-22
Scheme of Teaching & Examination of Bachelor of Engineering VII Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		urs/ eek		Credits	Maximum	Marks		Minimum Passing Marks			
								Tì	Theory P.		Practical			
				L	T	P								
Į								Internal	University	Internal	University		Theory	Practical
1	1. BEAI&DS-701T	Professional core courses	Complier Design	3	0	0	3.00	30	70	-	-	100	45	
2	2. BEAI&DS-701P	Professional core courses	Complier Design Lab	0	0	2	1.00			25	25	50		25
3	3. BEAI&DS-702T	Professional core courses	Digital Signal & Image Processing	3	0	0	3.00	30	70	-	-	100	45	
4	4. BEAI&DS-702P	Professional core courses	Digital Signal & Image Processing Lab	0	0	2	1.00			25	25	50		25
5	5. BEAI&DS-703T	Professional Elective Course	Elective- III	3	0	0	3.00	30	70	-	-	100	45	
6	6. BEAI&DS-704P	Open Elective	Open Elective- III	3	0	0	3.00	30	70	-	-	100	45	
7	BEAI&DS705	Project Work	Project		0	6	3.00	-	-	50	50	100		25
	Total				0	10	17.00	120	280	100	100	600		

**Elective III:**1. Human Computer Interaction 2 Medical Image Analysis 3. Data Compression & Encryption Techniques 4. Micro-Electro-Mechanical Systems

B.E. SCHEME OF EXAMINATION 2021-22
Scheme of Teaching & Examination of Bachelor of Engineering VIII Semester B.E. (Artificial Intelligence& Data Science)

Sr. No.	Course Code	Category	Course Name		urs/ eek		Credits	Maximum	Marks	,			Minimum Passing Marks	
								Theory		Practical		Total		
				L	T	P								
								Internal	University	Internal	University		Theory	Practical
1	1. BEAI&DS-801T	Professional Elective Course	Elective IV	3	0	0	3.00	30	70	-	-	100	45	
2	2. BEAI&DS-802T	Professional Elective Course	Elective V	3	0	0	3.00	30	70	-	-	100	45	
3	3. BEAI&DS-803T	Project Work	Project	0	0	12	8.00			100	100	200		
	Total				0	12	14.00	60	140	100	100	400		

Elective IV: 1. Cloud Computing 2 Augmented & Virtual Reality 3. Biomedical Instrumentation 4. Measurement and Design

Elective V: 1. Mobile Communication and Web Analytics 2. Optical Circuits & Fibres 3. Cyber Crimes & Digital Forensics 4. Data Visualization

## Credit Structure for UG Program Artificial Intelligence and Data Science

Sr. No.	Semester		Category											
		BSC	ESC	нѕмс	PCC	PEC	OEC	PROJ	Total					
1.	I	09	07	03	-	-	-	-	19					
2	П	09	13	-	-	-	-	-	22					
3	III	04	01	02	16	-	-	-	23					
4	IV	-	05	-	15	-	-	01	21					
5	V	03	07	-	09	03		-	22					
6	VI	-	-		13	03	03	03	22					
7	VII	-	-	-	08	03	03	03	17					
8	VIII	-	-	-	-	06	-	08	14					
Total		25	33	05	61	15	06	15	160					