

# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### **Diploma in Computer Science and Engineering-2022**

### Mandatory Induction Program (Duration:1 week)

- Physical activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- Lectures by Eminent People
- Visits to local Areas
- Familiarization to Dept./Branch & Innovations

Different components of the Mandatory Induction Program will be implemented as per the guidelines of Regulatory Bodies.

### SEMESTER - I

Course Code	Course Name	Course Type	ı	Hours pe week	er	Credits	Total
		,	L	Т	Р		Marks
HS101	Communication Skills in English	HS	2	0	0	2	50
BS101	Applied Chemistry	BS 3 0 0					100
BS102	Mathematics-I	BS 3 0 0				3	100
ES101	Introduction to IT Systems	ES	3	0	0	3	100
ES102	Engineering Mechanics	ES 3			0	3	100
HS191	Communication Skills in English Lab	h Lab HS C		0	2	1	50
BS191	Applied Chemistry Lab	BS	0	0	3	1.5	100
ES191	Introduction to IT Systems Lab	ES	0	0	2	1	50
ES192	Engineering Mechanics Lab	ES	0	0	2	1	50
ES193	Engineering Workshop Practice ES 0 0 3					1.5	100
	Total						
AU-1	Yoga and Sports	AU	0	0	1	0	0



# BRAINWARE UNIVERSITY SCHOOL OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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### SEMESTER – II

Course Code	Course Norma	Causea Torra		Hours po	er	Cuadita	Total
Course Code	Course Name	Course Type	L	T	Р	Credits	Marks
BS201	Applied Physics	BS	3	0	0	3	100
BS202	Mathematics-II	BS	3	1	0	4	100
ES201	Fundamentals of Electrical & Electronics Engineering	ES	3	0	0	3	100
ES202	Computer Programming	ES	3	0	0	3	100
BS291	Applied Physics Lab	BS	0	0	3	1.5	100
ES291	Fundamentals of Electrical & Electronics Engineering Lab	ES	0	0	2	1	50
ES292	Computer Programming Lab	ES	0	0	2	1	50
ES293	Engineering Graphics	0	3	1.5	100		
	Total						700
AU-2	Environmental Science	AU	2	0	0	0	0



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### SEMESTER-III

Course Code	Course Name	Course Type	Н	lours per week		Credits	Total
			L	Т	Р		Marks
DCSE-PC301	Data Structures PC 3 0 0						100
DCSE-PC302	Digital Electronics PC 3 0 0					3	100
DCSE-PC303	Operating Systems	PC	3	0	0	3	100
DCSE-PC304	Software Engineering	PC	3	0	0	3	100
DCSE-PC305	OOP with C++	PC	3	0	0	3	100
DCSE-PC391	Data Structures Lab	PC	0	0	2	1	50
DCSE-PC392	Digital Electronics Lab	PC	0	0	2	1	50
DCSE-PC393	Operating Systems Lab	PC	0	0	2	1	50
DCSE-PC394	Scripting Languages Lab	PC	0	0	2	1	50
DCSE-PC395	OOP with C++ Lab	PC	0	0	2	1	50
	Total						

Total Hours: 25

### SEMESTER-IV

Course Code	Course Name	Course Type	Н	lours p week		Credits	Total
		,	L	Т	Р		Marks
DCSE-PC401	Computer Organization	PC	3	0	0	3	100
DCSE-PC402	Design and Analysis of Algorithm	3	100				
DCSE-PC403	Introduction to DBMS	3	100				
DCSE-PC404	Web Technologies	PC 3 0 0				3	100
DCSE-PC405	Computer Networks	PC	3	0	0	3	100
DCSE-PC491	Computer Organization Lab	PC	0	0	2	1	50
DCSE-PC492	Design and Analysis of Algorithm Lab	PC	0	0	2	1	50
DCSE-PC493	DBMS Lab	PC	0	0	2	1	50
DCSE-PC494	Web Technologies Lab	PC	0	0	2	1	50
DCSE-PC495	Computer Networks Lab	1	50				
	Total						750
AU-3	Essence of Indian Knowledge and Tradition	AU	2	0	0	0	0



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### SEMESTER-V

Course Code	Course Name	Course Type	Н	lours   weel		Credits	Total Marks		
			L	T	P				
HS501	Entrepreneurship and Startups	HS	3	1	0	4	100		
DCSE-PC501	Internet of Things	3	100						
DCSE-PE501	Elective-I  A. Mobile Computing  B. Multimedia Technologies	3	0	0	3	100			
DCSE-PE502	Elective-II  A. Information Security  B. Network Forensics	PE	3	0	0	3	100		
DCSE-OE501	Open Elective-I  A. Renewable Energy Technologies  B. Operations Research	OE	3	0	0	3	100		
PROJ DCSE-581	Industrial Training	PROJ		-		2	100		
PROJ DCSE-582	Technical Seminar-I PROJ -					2	100		
PROJ DCSE-583	Project-I	PROJ	-			3	100		
	Total								



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### SEMESTER-VI

Course Code	Course Name	Course Type	Н	ours   weel		Credits	Total Marks		
			L	Т	Р				
DCSE-PC601	E-Commerce	0	3	100					
DCSE-PC602	A. Microprocessor	0	0	3	100				
DCSE-PE601	Elective-III  A. FOSS (Free and Open Source Software)  B. Software Testing	PE	3	0	0	3	100		
DCSE-PE602	Elective-IV  A. Fundamentals of AI  B. Data Warehousing and Data Mining	PE	3	0	0	3	100		
DCSE-OE601	Open Elective-III  A. Cyber law and Security  B. Project Management	OE	3	0	0	3	100		
DCSE-PC691	Computer Hardware Maintenance Lab PC 0 0					1	100		
PRO DCSE- J682	Project-II	PROJ		-		4	100		
PRO DCSE- J683	Grand viva	PROJ		-		2	100		
	Total								

**Total Hours: 15** 

**Total Credit: 122** 

Total Marks: 4500



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	Diploma in CSE									
Semester	Course Category								Total	Total Hours per
Semester	HS	BS	ES	PC	PE	OE	AU	PROJ	Credit	Week
	3	7.5	9.5				Υ		20	27
II		8.5	9.5				Υ		18	25
III				20					20	25
IV				20			Υ		20	27
V	4			3	6	3		7	23	16
VI				3	6	6		6	21	15
Total	7	16	19	46	12	9		13	122	135
Percentage	5.73%	13.11%	15.6%	37.7%	9.8%	7.4%		10.7%	122	233