



**BRAINWARE UNIVERSITY**  
**SCHOOL OF ENGINEERING**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**Programme Structure: Diploma in Electronics & Communication Engineering 2021**

**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 Induction Program will be implemented as per the guidelines of Regulatory Bodies**

**SEMESTER – I**

<b>Couse Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE101	Communicative English I	2 - 0 - 0	2	100
DECE102	Physics I	3 - 1 - 0	2	100
DECE103	Chemistry	3 - 1 - 0	2	100
DECE104	Mathematics I	3 - 1 - 0	2	100
DECE105	Engineering Mechanics	3 - 1 - 0	2	100
DECE106	Computer Fundamentals	3 - 1 - 0	2	100
	<b>Practical</b>			
DECE192	Physics I Lab	0 - 0 - 3	2	50
DECE193	Chemistry Lab	0 - 0 - 3	2	50
DECE194	Engineering Drawing I	0 - 0 - 3	2	50
DECE195	Workshop Practice I	0 - 0 - 3	2	50
DECE196	Computer Fundamentals Lab	0 - 0 - 3	2	50
DECE181	NSS			
	Total		22	850



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**SEMESTER – II**

<b>Course Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE201	Communicative English II	2 - 0 - 0	2	100
DECE202	Physics II	3 - 1 - 0	2	100
DECE203	Data Structure and Algorithm	3 - 1 - 0	2	100
DECE204	Mathematics II	3 - 1 - 0	2	100
DECE205	Environmental Science	3 - 1 - 0	2	100
DECE206	Electrical Technology	3 - 1 - 0	2	100
	<b>Practical</b>			
DECE291	Communicative English II Lab	0 - 0 - 3	2	50
DECE292	Physics II Lab	0 - 0 - 3	2	50
DECE293	Data Structure and Algorithm Lab	0 - 0 - 3	2	50
DECE294	Engineering drawing II	0 - 0 - 3	2	50
DECE295	Workshop Practice II	0 - 0 - 3	2	50
	<b>Total</b>		<b>22</b>	<b>850</b>

**SEMESTER – III**

<b>Course Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE301	Network Analysis	3 - 0 - 0	2	100
DECE302	Analog Electronics I	3 - 1 - 0	3	100
DECE303	Digital Electronics	3 - 1 - 0	3	100
DECE304	Data Base Management System	3 - 0 - 0	2	100
DECE305	Economics and Accountancy	3 - 0 - 0	2	100



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	<b>Practical</b>			
DECE391	Network Analysis Lab	0 - 0 - 3	2	50
DECE392	Analog Electronics I Lab	0 - 0 - 3	2	100
DECE393	Digital Electronics Lab	0 - 0 - 3	2	100
DECE394	Data Base Management System Lab	0 - 0 - 3	2	50
DECE381	Development of Life Skill	1 - 0 - 0		
	<b>Total</b>		<b>20</b>	<b>800</b>

**SEMESTER – IV**

<b>Couse Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE401	Principles of Communication Engineering	3 - 1 - 0	3	100
DECE402	Analog Electronics II	3 - 1 - 0	3	100
DECE403	Consumer Electronics	3 - 1 - 0	3	100
DECE404	Microprocessors	3 - 1 - 0	3	100
	<b>Practical</b>			
DECE491	Communication Engineering Lab	0 - 0 - 3	2	100
DECE492	Analog Electronics II Lab	0 - 0 - 3	2	100
DECE493	Consumer Electronics Lab	0 - 0 - 3	2	100
DECE494	Microprocessor Lab	0 - 0 - 3	2	100
PROJ-DECE481	Project I	0 - 0 - 2	2	100
DECE482	Professional Practice I		2	50
	<b>Total</b>		<b>24</b>	<b>950</b>



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**SEMESTER – V**

<b>Course Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE501	Digital & Microwave Communication Engineering	3 - 1 - 0	3	100
DECE502	Electronics Instruments and Measurements	3 - 1 - 0	3	100
DECE503	Microcontroller and Embedded System	3 - 1 - 0	3	100
DECE504	Industrial Electronics I	3 - 1 - 0	3	100
DECE505	<b>Elective I :</b> A. Computer Hardware Maintenance I B. Computer Network I C. Digital Signal Processing	3 - 0 - 0	2	100
	<b>Practical</b>			
DECE591	Digital & Microwave Communication Engineering Lab	0 - 0 - 3	2	100
DECE592	Electronics Instruments & Measurements Lab	0 - 0 - 3	2	100
DECE593	Microcontroller and Embedded System Lab	0 - 0 - 3	2	100
DECE594	Industrial Electronics I Lab	0 - 0 - 3	2	100
DECE595	Elective I Lab	0 - 0 - 3	2	50
PROJ-DECE581	Project II	0 - 0 - 2	2	100
DECE582	Professional Practice II		2	50
	<b>Total</b>		<b>28</b>	<b>1100</b>

**SEMESTER – VI**

<b>Course Code</b>	<b>Course Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
DECE601	Industrial Management & Entrepreneurship	3 - 1 - 0	2	100
DECE602	Advance Communication Engineering	3 - 1 - 0	3	100
DECE603	Instrumentation and Control	3 - 1 - 0	3	100
DECE604	Renewable Energy	3 - 0 - 0	2	100



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DECE605	<b>Elective II:</b> A. Computer Hardware Maintenance II B. Computer Network II C. Power Electronics	3 - 0 - 0	2	100
	<b>Practical</b>			
DECE691	Advance Communication Engineering Lab	0 - 0 - 3	2	100
DECE692	Instrumentation and Control Lab	0 - 0 - 3	2	50
DECE693	Android Based Development Lab	0 - 0 - 3	2	50
DECE694	Elective II Lab	0 - 0 - 3	2	50
PROJ-DECE681	Industrial Project		2	100
DECE682	General Viva Voce		2	100
	<b>Total</b>		<b>24</b>	<b>950</b>

**Total Marks: 5500**

**Total Credits: 140**