



**BRAINWARE UNIVERSITY**  
**Department of Allied Health Sciences**  
**Bachelor of Science in Critical Care Technology (B.Sc. CCT)**  
**Programme Structure 2026**  
**(As per UGC CBCS Template)**

**Semester-I**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
EVS101	Environmental Science	AECC1	2-0-0	2	100
BCCTC101	Human Anatomy	CC1	4-0-0	4	100
BCCTC102	Human Physiology	CC2	4-0-0	4	100
BCCTC103	Biochemistry	CC3	4-0-0	4	100
BCCTC191	Human Anatomy and Physiology- Practical	CC1	0-0-4	2	100
GE	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE1	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective -1 (Practical/Tutorial)	GE1	0-0-4/ 0-1-0	2/1	
<b>TOTAL</b>			<b>26/24</b>	<b>22</b>	<b>700/600</b>

**Semester-II**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
HU201	English Communication	AECC2	1-0-0	1	50
HU291	English Communication Lab	AECC2	0-0-2	1	50
BCCTC201	Microbiology	CC4	4-0-0	4	100
BCCTC202	Quality assurance and accreditation	CC5	4-0-0	4	100
BCCTC203	Pathology	CC6	4-0-0	4	100
BCCTC204	Pharmacology	CC7	4-0-0	4	100
BCCTC205	Medical Ethics	CC8	4-0-0	4	100
GE	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE2	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective -2 (Practical/Tutorial)	GE2	0-0-4/ 0-1-0	2/1	
<b>TOTAL</b>			<b>31/29</b>	<b>28</b>	<b>800/700</b>



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**Semester-III**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BCCTC301	Applied Anatomy and Physiology Related to Critical Care	CC9	4-0-0	4	100
BCCTC302	Clinical Microbiology, Infection Control and Clinical Pharmacology	CC10	4-0-0	4	100
BCCTC303	Basics of Critical Care Technology	CC11	4-0-0	4	100
BCCTS304	Basic Nursing	SEC1	4-0-0	4	100
BCCTS381	Clinical Observership I	SEC2	-	3	100
GE	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE3	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective -3 (Practical/Tutorial)	GE3	0-0-4/ 0-1-0	2/1	
<b>TOTAL</b>			<b>24/22</b>	<b>25</b>	<b>700/600</b>

**Semester-IV**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BCCTC401	Basic Anaesthesia	CC12	4-0-0	4	100
BCCTC402	Basic Surgery	CC13	4-0-0	4	100
BCCTC403	Clinical Scenario for Critical Care Technology	CC14	4-0-0	4	100
BCCTS404	Basics of Imaging studies	SEC3	4-0-0	4	100
BCCTS482	Clinical Observership II	SEC4	-	3	100
GE	Generic Elective- 4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE4	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective - 4 (Practical/Tutorial)	GE4	0-0-4/ 0-1-0	2/1	
<b>TOTAL</b>			<b>24/22</b>	<b>25</b>	<b>700/600</b>



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**Semester-V**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BCCTC501	Arterial blood gases	CC15	4-0-0	4	100
BCCTC502	Mechanical ventilation - non Invasive and Invasive Mechanism	CC16	4-0-0	4	100
BCCTC503	Patients care for Ventilation	CC17	4-0-0	4	100
BCCTC504	Respiratory support for Critical care patients	CC18	4-0-0	4	100
BCCTS583	Clinical Observership III	SEC5	-	3	100
<b>TOTAL</b>			<b>16</b>	<b>19</b>	<b>500</b>

**Semester-VI**

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BCCTC601	Concepts in advanced life support	CC19	4-0-0	4	100
BCCTC602	Procedural skills for Critical care Technology	CC20	4-0-0	4	100
BCCTC603	Basic administration and equipment Maintenance	CC21	4-0-0	4	100
BCCTC604	CSSD PROCEDURES	CC22	3-0-0	3	100
BCCTS691	Basic Life Support- Practical	SEC6	0-0-2	1	100
BCCTS684	Project and Dissertation	SEC7	-	3	100
<b>TOTAL</b>			<b>20</b>	<b>19</b>	<b>600</b>

**Semester- VII**

Course Code	Course Name	Type of Course	Credits	Total Marks
BCCTS781	Internship I	SEC7	10	100



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**Semester- VIII**

<b>Course Code</b>	<b>Course Name</b>	<b>Type of Course</b>	<b>Credits</b>	<b>Total Marks</b>
BCCTS881	Internship II	SEC8	10	100

**Total Credits: 158**

**Total Marks: 4000/3600**