

**RGU COURSE STRUCTURE (B. TECH-CE)**

RSET (B.Tech.)						RSET (B.Tech.)														
1st semester						2nd semester														
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	L	T	P	C	TCP
BS	1	Chemistry	3	0	2	4	5	1		Physics	3	0	2	4	5					
BS	2	Mathematics-I	3	1	0	4	4	2		Mathematics –II	3	1	0	4	4					
HUM	3	English-I	1	0	0	1	1	3		Basic Electrical Engineering	3	0	2	4	5					
ES	4	Engineering Graphics & Design	1	0	4	3	5	4		Programming for Problem Solving	2	0	4	4	6					
ES	5	Workshop	1	0	4	3	5	5		English-II	1	0	0	1	1					
NC	6	Environmental Sciences-I	1	0	0	1	1	6		Environmental Sciences-II	1	0	0	1	1					
		<b>TOTAL</b>	<b>10</b>	<b>1</b>	<b>10</b>	<b>16</b>	<b>21</b>			<b>TOTAL</b>	<b>13</b>	<b>1</b>	<b>8</b>	<b>18</b>	<b>22</b>	<b>23</b>	<b>2</b>	<b>18</b>	<b>34</b>	<b>43</b>

YR-1 TOTAL

RSET (B.Tech.)						RSET (B.Tech.)														
3rd semester						4th semester														
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	L	T	P	C	TCP
ES	1	Basic Electronics	1	0	2	2	3	1		Mechanical Engineering	2	0	0	2	2					
ES	2	Computer-aided Civil Engineering Drawing	1	0	2	2	3	2		Instrumentation & Sensor Technologies for Civil	1	1	2	3	4					
ES	3	Engineering Mechanics	3	1	0	4	4	3		Engineering Geology	1	0	2	2	3					
ES	4	Energy Science & Engineering	1	1	0	2	2	4		Disaster Preparedness & Planning	1	1	0	2	2					
BS	5	Mathematics-III	2	0	0	2	2	5		Introduction to Fluid Mechanics	2	0	2	3	4					
HUM	6	Introduction to Civil Engineering	2	0	0	2	2	6		Introduction to Solid Mechanics	2	0	0	2	2					
ES	7	English-III	1	0	0	1	1	7		Materials, Testing & Evaluation	1	1	2	3	4					
HUM	8	Behavioral Science-I	1	0	0	1	1	8		Surveying & Geomatics	1	1	2	3	4					
HUM	9	Biology for Engineers	2	0	0	2	2	9		English-IV	1	0	0	1	1					
PCC	10	Life Science	1	0	0	1	1	10		Behavioral Science-II	1	0	0	1	1					
BS	11	Civil Engineering- Societal and Global Impact	1	0	0	1	1	11		AutoCAD 3D (Honours Course-1)	0	0	4	2	4					
								12		Industrial Training (Honours Students)	0	0	0	2	0					
		<b>TOTAL</b>	<b>16</b>	<b>2</b>	<b>4</b>	<b>20</b>	<b>22</b>			<b>TOTAL</b>	<b>13</b>	<b>4</b>	<b>14</b>	<b>26</b>	<b>31</b>	<b>29</b>	<b>6</b>	<b>18</b>	<b>46</b>	<b>53</b>

YR-2 TOTAL

RSET (B.Tech.)						RSET (B.Tech.)														
5th semester						6th semester														
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP	L	T	P	C	TCP
PCC	1	Mechanics of Materials	3	0	0	3	3	1		Construction Engineering & Management	2	1	0	3	3					
PCC	2	Hydraulic Engineering	2	0	2	3	4	2		Engineering Economics, Estimation & Costing	2	1	4	5	7					
PCC	3	Structural Engineering	2	1	0	3	3	3		Transportation Engineering	2	0	2	3	4					
PCC	4	Geotechnical Engineering	2	0	2	3	4	4		Elective-I	3	0	0	3	3					
PCC	5	Hydrology & Water Resources Engineering	2	0	2	3	4	5		Elective-II	3	0	0	3	3					
PCC	6	Environmental Engineering	2	0	2	3	4	6		Open Elective-II	3	0	0	3	3					
HUM	7	Professional Practice, Law & Ethics	2	0	0	2	2	7		Elective-III	3	0	0	3	3					
NC	8	Constitution of India	1	0	0	1	1	8		Elective-IV	3	0	0	3	3					
HUM	9	English-V	1	0	0	1	1	9		Summer Training	0	0	0	2	0					
	10	Organizational Behavior	1	0	0	1	1	10		English-VI	1	0	0	1	1					

PCC  
PCC  
PCC  
PEC  
PEC  
OE  
PEC  
PEC  
TR

OE

11	Open Elective-I	3	0	0	3	3	11	Essence of Indian Traditional Knowledge	1	0	0	1	1																
12	<b>MATLAB (Honours Course-2)</b>	0	2	4	4	6		<b>Concrete Mix-Design (Honours Course-3)</b>	2	1	2	4	5																
	<b>TOTAL</b>	<b>21</b>	<b>3</b>	<b>12</b>	<b>30</b>	<b>36</b>		<b>TOTAL</b>	<b>25</b>	<b>3</b>	<b>8</b>	<b>34</b>	<b>36</b>	<b>46</b>	<b>6</b>	<b>20</b>	<b>64</b>	<b>72</b>	YR-3 TOTAL										
<b>RSET (B.Tech.)</b>							<b>RSET (B.Tech.)</b>																						
<b>7th semester</b>							<b>8th semester</b>																						
<b>Sl. No.</b>	<b>Subject Code</b>	<b>Names of subjects</b>					<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>TCP</b>	<b>Sl. No.</b>	<b>Subject Code</b>	<b>Names of subjects</b>					<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>TCP</b>						
1		Elective-V					3	0	0	3	3	1		Elective-VII					3	0	0	3	3						
2		Elective-VI					3	0	0	3	3	2		Elective-VIII					2	0	0	2	2						
3		Open Elective-III					3	0	0	3	3	3		Open Elective-IV					2	0	0	2	2						
4		Project-1					0	0	8	4	8	4		Project-2					0	0	12	6	12						
														<b>Comprehensive Viva</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>						
5		<b>Stad Pro (Honours Course-4)</b>					<b>0</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>6</b>	5		<b>Elements of GIS (Honours Course-5)</b>					<b>1</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>6</b>						
		<b>TOTAL</b>					<b>9</b>	<b>2</b>	<b>12</b>	<b>17</b>	<b>23</b>			<b>TOTAL</b>					<b>8</b>	<b>1</b>	<b>16</b>	<b>19</b>	<b>25</b>	<b>17</b>	<b>3</b>	<b>28</b>	<b>36</b>	<b>48</b>	YR-4 TOTAL

PEC  
PEC  
OE  
TR

PEC  
PEC  
OE  
PR

<b>Elective-I</b>	: (a) Railway Engg. & (b) Airport Planning & Design
<b>Elective-II</b>	: (a) Const. Project Planning & Systems & (b) Contracts Management
<b>Elective-III</b>	: (a) Physico-chemical Processes for Water & Wastewater Treatment & (b) Biological Processes for Contaminant Removal
<b>Elective-IV</b>	: (a) Irrigation Engineering & (b) Urban Hydrology & Hydraulics
<b>Elective-V</b>	: (a) Water Resources Field Methods & (b) Environmental Fluid Mechanics
<b>Elective-VI</b>	: (a) Bridge Engg & (b) Earthquake Engg.
<b>Elective-</b>	: (a) Foundation Engg. & (b) Geotechnical Design
<b>Elective-VII</b>	: (a) Design of Sub-structures & (b) System Engineering
<b>Project-1</b>	: Project work, seminar and internship in industry or at appropriate work place
<b>Project-2</b>	: Continued from Sem-VII, Project work, seminar and internship in industry or at appropriate work place

<b>Open</b>	Students to opt for this from Outside RSET
<b>Open</b>	Students to opt for this from Outside RSET
<b>Open</b>	Plumbing & Sanitation (Meant for Students within RSET other than CE
<b>Open</b>	Building Materials (Meant for Students within RSET other than CE Dept

<b>Mathemati</b>	Calculus, Multivariable Calculus and Linear
<b>Physics</b>	Mechanics & Mechanics of Solids
<b>Mathemati</b>	Differential Equations
<b>Mathemati</b>	Transform & Discrete Mathematics

	Sem	L	T	P	C	TCP
	I	10	1	10	16	21
	II	13	1	8	18	22
	III	16	2	4	20	22
	IV	13	4	14	26	31
	V	21	3	12	30	36
	VI	25	3	8	34	36
	VII	9	2	12	17	23
	VIII	8	1	16	19	25
	<b>##</b>	<b>#</b>	<b>84</b>	<b>180</b>	<b>216</b>	

**Note:**

1 No practical for subjects like Biology for Engineers and Life

2

3