

**ANNA UNIVERSITY, CHENNAI**  
**AFFILIATED INSTITUTIONS**  
**B. E. AGRICULTURE ENGINEERING**  
**REGULATIONS– 2017**  
**CHOICE BASED CREDIT SYSTEM**  
**I TO VIII SEMESTERS CURRICULA & SYLLABI**

**SEMESTER I**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P
<b>THEORY</b>							
1.	HS8151	Communicative English	HS	4	4	0	0
2.	MA8151	Engineering Mathematics – I	BS	4	4	0	0
3.	PH8151	Engineering Physics	BS	3	3	0	0
4.	CY8151	Engineering Chemistry	BS	3	3	0	0
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0
6.	GE8152	Engineering Graphics	ES	6	2	0	4
<b>PRACTICAL</b>							
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>

**SEMESTER II**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P
<b>THEORY</b>							
1.	HS8251	Technical English	HS	4	4	0	0
2.	MA8251	Engineering Mathematics – II	BS	4	4	0	0
3.	BE8251	Basic Electrical and Electronics Engineering	ES	3	3	0	0
4.	GE8292	Engineering Mechanics	ES	5	3	2	0
5.	AI8201	Principles and Practices of Crop Production	PC	3	3	0	0
<b>PRACTICAL</b>							
6.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4
7.	AI8211	Crop Husbandry Laboratory	PC	4	0	0	4
<b>TOTAL</b>				<b>27</b>	<b>17</b>	<b>2</b>	<b>8</b>

**SEMESTER III**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	AI8301	Soil Science and Engineering	PC	3	3	0	0	3
3.	AI8302	Fluid Mechanics and Hydraulics	PC	4	4	0	0	4
4.	AI8303	Theory of Machines	PC	3	3	0	0	3
5.	CE8304	Surveying and Levelling	ES	3	3	0	0	3
6.	MF8491	Thermodynamics	ES	5	3	2	0	4
<b>PRACTICAL</b>								
7.	CE8312	Surveying and Levelling Laboratory	ES	4	0	0	4	2
8.	AI8311	Fluid Mechanics Laboratory	PC	2	0	0	2	1
9.	HS8381	Interpersonal Skills / Listening and Speaking	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>20</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER IV**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8391	Probability and Statistics	BS	4	4	0	0	4
2.	AI8401	Unit Operations in Agricultural Processing	PC	3	3	0	0	3
3.	AI8402	Farm Tractors	PC	3	3	0	0	3
4.	CE8091	Hydrology and Water Resources Engineering	PC	3	3	0	0	3
5.	CE8393	Strength of Materials	ES	4	4	0	0	4
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
<b>PRACTICAL</b>								
7.	AI8411	Soil Science Laboratory	PC	2	0	0	2	1
8.	CE8481	Strength of Materials Laboratory	ES	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>28</b>	<b>20</b>	<b>0</b>	<b>8</b>	<b>24</b>

**SEMESTER V**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	AI8501	Irrigation and Drainage Engineering	PC	3	3	0	0	3
2.	AI8502	Farm Machinery and Equipment	PC	3	3	0	0	3
3.	AI8503	Design of Basic Machine Elements	PC	4	4	0	0	4
4.	AI8504	Post Harvest Technology	PC	3	3	0	0	3
5.		Professional Elective - I	PE	3	3	0	0	3
6.		Open Elective - I*	OE	3	3	0	0	3
<b>PRACTICAL</b>								
7.	AI8511	Operation and Maintenance of Farm Machinery Lab	PC	4	0	0	4	2
8.	AI8512	Post Harvest Engineering Laboratory	PC	4	0	0	4	2
9.	AI8513	Irrigation Field Laboratory	PC	4	0	0	4	2
10.	HS8581	Professional Communication	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>33</b>	<b>19</b>	<b>0</b>	<b>14</b>	<b>26</b>

**SEMESTER VI**

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	AI8601	Groundwater and Well Engineering	PC	3	3	0	0	3
2.	AI8602	Food and Dairy Engineering	PC	3	3	0	0	3
3.	AI8603	Protected Cultivation	PC	3	3	0	0	3
4.	AI8604	Solar and Wind Energy Engineering	PC	3	3	0	0	3
5.		Professional Elective – II	PE	3	3	0	0	3
6.		Professional Elective – III	PE	3	3	0	0	3
<b>PRACTICAL</b>								
7.	AI8611	CAD for Agricultural Engineering	PC	4	0	0	4	2
8.	AI8612	Drawing of Farm Structures	PC	4	0	0	4	2
9.	AI8613	Study Tour(1 Week)	EEC	0	0	0	0	1
10.	AI8614	Food Process Engineering Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>30</b>	<b>18</b>	<b>0</b>	<b>12</b>	<b>25</b>

### SEMESTER VII

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	AI8701	Soil and Water Conservation Engineering	PC	3	3	0	0	3
2.	AI8702	Remote Sensing and Geographical Information System	PC	3	3	0	0	3
3.	AI8703	Bio-Energy Resource Technology	PC	3	3	0	0	3
4.		Professional Elective – IV	PE	3	3	0	0	3
5.		Open Elective - II*	OE	3	3	0	0	3
<b>PRACTICAL</b>								
6.	AI8711	GIS Laboratory for Agricultural Engineers	PC	4	0	0	4	2
7.	AI8712	Renewable Energy Laboratory	PC	4	0	0	4	2
8.	AI8713	ICT in Agricultural Engineering Lab Exercises	PC	2	0	0	2	1
9.	AI8714	Industrial Training (4 weeks During VI Semester –Summer)	EEC	0	0	0	0	2
<b>TOTAL</b>				<b>25</b>	<b>15</b>	<b>0</b>	<b>10</b>	<b>22</b>

### SEMESTER VIII

SL. No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.		Professional Elective – V	PE	3	3	0	0	3
2.		Professional Elective – VI	PE	3	3	0	0	3
<b>PRACTICAL</b>								
3.	AI8811	Project work	EEC	20	0	0	20	1
<b>TOTAL</b>				<b>26</b>	<b>6</b>	<b>0</b>	<b>20</b>	<b>11</b>

**TOTAL NO. OF CREDITS: 185**