



**TECHNO INDIA UNIVERSITY**  
WESTBENGAL

EM 4, Sector V, Salt Lake, Kolkata-700091, West Bengal, India  
Phone: +91 9836544416/17/18/19, Fax: +91 33 2357 1097

**Department of Agriculture Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**First Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UEN-T101	Career Advancement & Skill Development - I Communication Skill	2	0	0	2
2	TIU-UPH-T102	Physics	3	1	0	4
3	TIU-UCS-T10#	Computer Fundamentals	2	1	0	3
4	TIU-UEE-T10#	Basic Electrical & Electronics Engineering	3	1	0	4
5	TIU-UMA-T10#	Problem Solving Methods-I	2	0	0	2
<b>PRACTICAL</b>						
1	TIU-UPH-L102	Physics Lab	0	0	3	1.5
2	TIU-UCS-L101	Computer Fundamentals Lab	0	0	3	1.5
3	TIU-UEE-L10#	Basic Electrical & Electronics Engineering Lab & Simulation	0	0	3	1.5
4	TIU-UME-L102	Engineering Drawing & Graphics	0	0	3	1.5
<b>SESSIONAL</b>						
1	TIU-UES-S299	Entrepreneurship Skill Development	0	0	2	2
<b>TOTAL CREDIT</b>						<b>23</b>

Approved By:  
External Expert

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**Department of Agriculture Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Second Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UEN-T100	Career Advancement & Skill Development - II Communication Skill	2	0	0	2
2	TIU-UCH-T103	Chemistry	3	1	0	4
3	TIU-UME-T102	Engineering Mechanics	3	1	0	4
4	TIU-UMA-T10#	Problem Solving Methods-II	2	0	0	2
<b>PRACTICAL</b>						
1	TIU-UCH-L103	Chemistry Lab	0	0	3	1.5
2	TIU-UME-L102	Introduction to Manufacturing Process Lab	0	0	3	1.5
3	TIU-UME-L10#	Engineering Mechanics Lab	0	0	3	1.5
<b>SESSIONAL</b>						
1	TIU-UES-S299	Entrepreneurship Skill Development	0	0	2	2
<b>TOTAL CREDIT</b>						<b>18.5</b>

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**Department of Agricultural Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Third Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UEN-T20#	Career Advancement & Skill Development-III-Organizational Behaviour	2	0	0	2
2	TIU-UAE-T201	Numerical Analysis & Computer Programming	2	1	0	3
3	TIU-UAE-T202	Management Fundamentals	2	0	0	2
4	TIU-UAE-T203	Engineering Thermodynamics	3	1	0	4
5	TIU-UAE-T204	Crop Production	3	0	0	3
6	TIU-UAE-T205	Soil Science and Plant pathology	3	0	0	3
7	TIU-UMB-T201	Environmental Science	3	0	0	3
<b>PRACTICAL</b>						
1	TIU-UAE-L201	Computer Organization Lab	0	0	3	1.5
2	TIU-UAE-L203	Agricultural Bioengineering Lab	0	0	3	1.5
3	TIU-UAE-L205	Soil Science Lab	0	0	3	1.5
<b>SESSIONAL</b>						
1	TIU-UES-S399	Entrepreneurship Skill Development	0	0	3	2
<b>TOTAL CREDIT</b>						<b>26.5</b>



**Department of Agriculture Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Fourth Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UTR-T200	Economics	2	0	0	2
2	TIU-UAE-T202	Agricultural Systems & Machineries	2	0	0	2
3	TIU-UAE-T204	Hydrology & Drainage Engineering	4	0	0	4
4	TIU-UAE-T206	Internal Combustion Engines & Tractors	3	0	0	3
5	TIU-UAE-T208	Soil Mechanics	3	0	0	3
6	TIU-UAE-T20#	Biostatistics	2	0	0	2
<b>PRACTICAL</b>						
1	TIU-UAE-L301	Electrical Machines	0	0	3	1.5
2	TIU-UAE-L303	Strengths of Materials Laboratory	0	0	3	1.5
3	TIU-UAE-L305	Soil Water Laboratory	0	0	3	1.5
4	TIU-UAE-L309	Kinematics and Dynamics	0	0	3	1.5
<b>SESSIONAL</b>						
1	TIU-UES-S399	Entrepreneurship Skill Development	0	0	3	2
<b>TOTAL CREDIT</b>						<b>24</b>



**Department of Agricultural Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Fifth Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UTR-T301	Career Advancement & Skill Development	2	0	0	2
2	TIU-UAE-T301	Surveying and Leveling	3	0	0	3
3	TIU-UAE-T303	Agriculture Engineering Structures & Rural Engineering	3	0	0	3
4	TIU-UAE-T305	Post Harvest Engineering	3	0	0	3
5	TIU-UAE-T307	Soil and Water conservation Engineering	3	0	0	3
6	TIU-UAE-T309	Building Materials and Structural Design	3	0	0	3
<b>PRACTICAL</b>						
1	TIU-UAE-L301	Surveying & Leveling Lab	0	0	3	1.5
2	TIU-UAE-L303	Agriculture Engineering Structures and Rural Engineering Lab	0	0	3	1.5
3	TIU-UAE-L305	Post-Harvest Engineering Lab	0	0	3	1.5
4	TIU-UAE-L309	Building Materials and Structural Design Lab	0	0	3	1.5
5	TIU-UAE-L310	Training and Presentation	0	0	3	1.5
<b>SESSIONAL</b>						
1	TIU-UES-S399	Entrepreneurship Skill Development	0	0	3	2
<b>TOTAL CREDIT</b>						<b>26.5</b>



**Department of Agricultural Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Sixth Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UEN-T300	Career Advancement & Skill Development	2	0	0	2
2	TIU-UAE-T302	Pumps Engineering & Hydraulic Control	3	0	0	3
3	TIU-UAE-T304	Ground Water and Well Engineering	3	0	0	3
4	TIU-UAE-T306	Farm Machinery	3	0	0	3
5	TIU-UAE-T308	Refrigeration And Air Conditioning	3	0	0	3
6	TIU-UAE-T30#	Elective-I	3	0	0	3
<b>PRACTICAL</b>						
1	TIU-UAE-L302	Pumps Engineering & Hydraulic Control Lab	0	0	3	1.5
2	TIU-UAE-L306	Farm Machinery Lab	0	0	3	1.5
3	TIU-UAE-L304	Ground Water and Well Engineering Lab	0	0	3	1.5
4	TIU-UAE-L30#	Elective-I Lab	0	0	3	1.5
5	TIU-UAE-L30#	Field Survey	0	0	4	2
<b>TOTAL CREDIT</b>						<b>25</b>

<b>ELECTIVE-I</b>						
1	TIU-UAE-T311	Tillage and Traction Engineering	3	0	0	3
2	TIU-UAE-T312	Irrigation and Drainage Equipments Design	3	0	0	3
3	TIU-UAE-T313	Seed Technology and processing	3	0	0	3
4	TIU-UAE-T314	Horticultural and Plantation Product Processing	3	0	0	3

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**Department of Agriculture Engineering (AE)**  
**Curriculum for 4-Years B.Tech.**  
**Seventh Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UCS-T40#	Career Advancement & Skill Development-VII	2	0	0	2
4	TIU-UAE-T405	Dairy and Food Processing Technology	3	0	0	3
5	TIU-UAE-T407	Elective-II	3	0	0	3
6	TIU-UAE-T409	Elective - III	3	0	0	3
<b>PRACTICAL</b>						
3	TIU-UAE-L405	Dairy and Food Processing Operations Laboratory	0	0	3	1.5
4	TIU-UAE-P499	Project I	0	0	3	4
<b>SESSIONAL</b>						
1	TIU-UES-S499	Entrepreneurship Skill Development	0	0	3	2
<b>TOTAL CREDIT</b>						<b>18.5</b>

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**Department of Agricultural Engineering (AE)**  
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**Eighth Semester**

S. No	Course Code	Course Title	Contact Hrs. / Week			Credit
			L	T	P	
<b>THEORY</b>						
1	TIU-UMG-T40#	Career Advancement & Skill Development-VIII-Values and Ethics	2	0	0	2
5	TIU-UAE-T408	Elective –IV	3	0	0	3
<b>PRACTICAL</b>						
1	TIU-UAE-D498	Project – II	0	0	3	8
2	TIU-UAE-G498	Grand Viva	0	0	0	3
<b>SESSIONAL</b>						
1	TIU-UES-S499	Entrepreneurship Skill Development	0	0	3	2
<b>TOTAL CREDIT</b>						<b>18</b>

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