

**Curriculum for the Degree of Bachelor of Science (B.Sc.) in  
Agricultural Engineering: *Farm Machinery***

COURSE CODE	COURSE TITLE	CREDITS
<b>Semester I (Fall)</b>		
19-14-101	Calculus I	4
20-10-115	Physics I (Mechanics)	3
25-10-113	General Language	3
36-30-102	Technical Drawing I	2
-----	General Courses	-
<b>Semester II</b>		
19-14-102	Calculus II	4
20-10-125	Physics II (Electricity & Magnetism)	3
20-10-116	Physics I (Lab)	1
21-10-103	General Chemistry	3
15-12-153	Statics	3
-----	General Courses	-
<b>Semester III (Fall)</b>		
19-14-251	Differential Equations	3
20-10-126	Physics II (Lab)	1
15-12-207	Dynamics	4
36-30-236	Internal Combustion Engine Technology	3
36-20-222	Introduction to Soil Science	3
15-12-211	Strength of Materials I	3
-----	General Courses	-
<b>Semester IV</b>		
36-30-237	Tractors Technology	3
36-30-349	Strength of Materials II	2
15-12-303	Strength of Materials (Lab)	1
17-10-250	Introduction to Electrification Eng.	3
36-22-122	Agronomy Principal	3
36-22-107	Probability	3
17-30-150	Introduction to Computer Programming	3
-----	General Courses	-
<b>Semester V (Fall)</b>		
36-30-342	Principles of Tillage Implement	3
15-14-210	Thermodynamics I	3
11-10-308	Materials Science	3
24-10-150	Metal Works Skills	1
36-14-222	Horticultural Science	3
36-12-203	Fluid Mechanics	3
-----	General & Elective Courses	3

## Department of Farm Machinery

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### Semester VI

13-10-426	Economics & Industrial Management	2
36-12-224	Principles & Methods of Irrigation	3
24-10-171	Electrification (Lab)	1
36-22-327	Field-Work Training	3
36-30-348	Principles of Planting and Cultivation Machinery	3
36-30-348	Principles of Harvesting Machinery	3
36-30-456	Design of Machine Elements I General Courses	3

### Semester VII (Fall)

36-30-453	Mechanics of Farm Tractors & Machinery	3
36-30-458	Design of Machine Elements II	3
36-30-461	Seminar (Ag. Machinery)	1
24-10-102	Metal Cutting Works I	1
-----	General & Elective Courses	-

### Semester VIII

36-30-468	Design of Hydraulic Systems	3
36-30-461	Seminar (Ag. Machinery)	1
36-30-460	Project in Agricultural Machinery	2
-----	General & Elective Courses	-

### Elective Courses

15-10-406	Technical Drawing II	2
15-12-311	Mechanical Vibration	3
15-12-309	Machine Dynamic	3
24-10-102	Metal Cutting Works II	1
15-12-471	Design of Mechanisms	3
36-30-484	Principles of Postharvest Equipments and Machinery	3
36-30-486	Design of Agricultural Machinery	3
19-14-271	Numerical Computations	2
15-12-449	Numerical Methods	2
36-30-488	Physical Properties of Agricultural Materials	2
36-30-482	Mechanical Properties of Agricultural Materials	2
36-22-477	Crops Production	3
36-18-335	Agricultural Extension and Education	3
36-30-455	Agricultural Mechanization	2
36-12-343	Pumps & Pumping Stations	2
36-12-221	Surveying and Planimetry	2