# **20FM012** ADVANCES IN FARM MACHINERY AND POWER ENGINEERING

#### Hours Per Week :

L	Т	Р	С
3	1	-	4

Total Hours :

L	Т	Р	WA/RA	SSH/HSH	CS	SA	S	BS
45	-	-	-	-	-	-	-	-

#### **Course Description and objectives:**

This course deals with the design of tillage and traction devices used in farm machinery. The course aims to present fundamental concepts describing dynamic soil behaviour in response to mechanical elements with methods for designing traction/transport systems.

### **Course outcomes:**

To identify the need of comparative analysis of human, bullock, IC engine and other sources of farm power, analysis of force in tractor implement combination under two dimensional condition, principle of design and development of agriculturalmachines and wear in agricultural machines.

## SKILLS:

Performance evaluation of cultivator. Draft measurements of implements. Usage of GIS software. Selection of optimum tyre for traction.