

The list and the content of different courses for post-graduate programmes leading to the degrees of M.Tech / Ph. D are mentioned below. The nature and number of courses to be offered in major, minor and pre-requisite/ supporting subjects shall be decided by the Advisory Committee of the student from among the courses listed below.

S. No.	Course No.	Course Title	Credits
<b>A. PRE-REQUISITE COURSES</b>			
1.	STW	Scientific & Technical Writing	3(2+1)
2.	FPT - 711	Material Handling	3(2+1)
3.	FPT - 712	Engineering Materials & Maintenance of Equipment	3(2+1)
4.	FPT - 713	Mechanical Measurements & Instrumentation	2(1+1)
5.	FPT - 714	Refrigeration & Air conditioning Engineering	4(2+2)
6.	FPT - 715	Process Equipment Design	4(2+2)
7.	FPT - 716	Heat & Mass Transfer in Food Processing	3(3+0)
8.	FPT - 721	Crop Science & Food Resources	3(2+1)
<b>B. MAJOR COURSES</b>			
<b>B.1 CORE COURSES</b>			
1.	FPT - 912	Engineering Properties of Biological Materials	3(2+1)
2.	FPT - 925	Biotechnology in Food Processing	3(2+1)
3.	FPT - 931	Unit Operations of Food Processing	3(2+1)
4.	FPT - 937	Energy Conservation in Food Processing Plants	3(2+1)
5.	FPT - 939	Advanced Food Engineering	3(2+1)
6.	FPT - 955	Advanced Food Process Technology	3(2+1)
7.	FPT - 962	Food Plant Management & Resource Planning	2(2+0)
8.	FPT - 996	Research Methodology	2(2+0)
9.	FPT - 997	In – Plant Training	2(0+2)
10.	FPT - 998	Special Problem	2(0+2)
11.	FPT - 999	Seminar	1(1+0)

**B.2 OPTIONAL COURSES**

1.	FPT - 911	Post Harvest Technology of Agro-produce	3(2+1)
2	FPT - 924	Food Additives & Preservatives	2(2+0)
3.	FPT - 926	Food Standards & Quality Assurance	3(2+1)
4.	FPT - 927	Effluent Treatment & Management	3(2+1)
5.	FPT - 932	Thermal Processing of Foods	3(2+1)
6.	FPT - 933	Drying & Dehydration	3(2+1)
7.	FPT - 934	Bio Process Engineering	3(2+1)
8.	FPT - 935	Process Control in Food Industry	2(1+1)
9.	FPT - 936	Design & Layout of Food Processing Plants	3(2+1)
10.	FPT - 938	Plant Utilities & Sanitation	3(2+1)
11.	FPT - 941	Technology of Cereals & Pulses Processing	4(3+1)
12.	FPT - 942	Technology of Oilseeds & Oil Processing	3(2+1)
13.	FPT - 943	Technology of Milk & Milk Products	4(3+1)
14.	FPT - 944	Technology of Horticultural Crops Processing	4(3+1)
15.	FPT - 945	Technology of Spices & Plantation Crops Processing	3(2+1)
16.	FPT - 946	Technology of Fish, Meat & Poultry Products	3(2+1)
17.	FPT - 947	Technology for RTE/RTC Food Products	3(2+1)
18.	FPT - 948	Technology of Bakery & Confectionary Products	3(2+1)
19.	FPT - 949	Technology of Sugar & Jaggery Processing	3(2+1)
20.	FPT - 951	Fermented Food Products Technology	3(2+1)
21.	FPT - 952	Food Irradiation Technology	2(1+1)
22.	FPT - 953	Packaging Technology & Equipments	3(2+1)
23.	FPT - 954	Management of By-products & Wastes of Food Industries	3(2+1)
24.	FPT - 956	Advanced Protein Technology	3(3+0)
25.	FPT - 957	Advanced Lipid Technology	3(3+0)
26.	FPT - 958	Enzymology	3(2+1)
27.	FPT - 959	Functional Foods & Nutraceuticals	3(2+1)

28.	FPT - 961	Project Engineering & Management	2(2+0)