Mahatma Phule Krishi Vidyapeeth Rahuri-413 722, Dist. Ahmednagar (MS)

Master's Programme *in* Process and Food Engineering

Course Layout

Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1	Major Courses	15
2	Minor Courses	08
3	Supporting Courses	05
4	Seminar	02
5	Research	45
	Total	**75**

Sr. No.	Course Number	Course Title	Credits
A) Major subjects (Min. 15 Credits)			
1	PFE 601*	Textural & Rheological Characteristics Of Food Materials	3(2+1)
2	PFE 602 *	Advances In Food Processing	3(3+0)
3	PFE 603	Mathematical Models In Food Processing	2(2+0)
4	PFE 604	Advances In Drying Of Food Materials	3(2+1)
5	PFE 605	Waste And By –Products Utilization	3(2+1)
6	PFE 606	Food Quality Systems & Management	3(2+1)
7	PFE 607	Nutraceuticals And Health Foods	3(2+1)
8	PFE 608	Enzymes In Food Processing	3(2+1)
9	PFE 609	Plant Utilities And Plant Safety	3(2+1)
10	PFE 615	Food Supply Chain Management	2(1+1)
11	PFE 693*	Special Problem	1(0+1)
12	PFE 694	Case Study	1(0+1)

B) Minor subjects (Min. 8 Credits)			
1	PFE 610	Techniques in Food Analysis	3(1+2)
2	PFE 611	Bakery and Confectionary Technology	3(2+1)
3	PFE 612	Sensory Evaluation	2(1+1)
4	PFE 613	Automation In Food Processing	3(2+1)
5	PFE 614	Cold Chain Management	2(2+0)
6	PFE 617	Industrial Pollution And Control	3(2+1)
7	PFE 618	Solid-Fluid Operations	2(1+1)
8	RES 605	Fuels And Combustion	3(2+1)
9	RES 623	Energy Management & Planning	3(2+1)
C) Supporting courses (Min. 5 Credits)			
1	PFE 620	Computer Applications In Food Industry	3(1+2)
2	PFE 621	Current Topics In Food Processing	2(2+0)
3	STAT 531	Data Analysis using Statistical Packages	3(2+1)
4	STAT 609	Operations Research	3(2+1)
5	STAT 612	Regression Analysis	3(2+1)
D) Seminar			
1.	PFE 691	Doctoral Seminar I	1(0+1)
2.	PFE 692	Doctoral Seminar Ii	1(0+1)
E) Doctoral Studies Research (45 Credits)			
1	PFE 699	Doctoral Research	45
F) Non credit compulsory courses			
1	PGS 501	Library And Information Services	1(0+1)
2	PGS 502	Technical Writing And Communications Skills	1(0+1)
3	PGS 503 (e-Course)	Intellectual Property And Its Management In Agriculture	1(1+0)
4	PGS 504	Basic Concepts In Laboratory Techniques	1(0+1)
5	PGS 505 (e-Course)	Agricultural Research, Research Ethics And Rural Development Programmes	1(1+0)
6	PGS 506 (e-Course)	Disaster Management	1(1+0)

* Compulsory
#Minimum of three weeks