



Programme Specifications

B.Voc. Programme

Programme: Post-Harvest Technology Faculty Faculty of Engineering and Technology

Directorate of Training and Lifelong Learning M.S. Ramaiah University of Applied Sciences

University House, New BEL Road, MSR Nagar, Bangalore – 560 054 www.msruas.ac.in

1.	Title of the Awards
	Vocational Diploma in Post-Harvest Technology
	Vocational Advanced Diploma in Post-Harvest Technology
	Bachelor of Vocational Degree in Post-Harvest Technology
2.	Modes of Study
	Full-Time
3.	Awarding Institution /Body
	Ramaiah University Of Applied Sciences – Bangalore, India
4.	Joint Award
5.	Teaching Institution
	Directorate of Training and Lifelong Learning
	Ramaiah University of Applied Sciences - Bangalore, India
6.	Date of Course Specifications
	Feb 2019
7.	Date of Course Approval by the Training and Lifelong Learning Council of RUAS
	March 2019
8.	Course Benchmark
	UGC Guidelines
9.	Rationale for the Course
10.	Course Aim
	The aim of the course is to develop skilled professionals in Post - Harvest Technology.
11.	Course Objectives
	The objectives of the course are:
	1. To impart knowledge on general education including physics, mathematics, electrical, electronics and computer applications
	To impart knowledge on fundamentals and advancements in food engineering and technology
	3. To repair and maintain various types of food processing machines

	4.	To imp	part knowledge on Mechanical, electronics and electrical systems and designs
	involv	ed in foc	od processing machines
	5.	•	part knowledge on managerial subjects and general subjects like principles of
		-	gement, customer relationship, operations management, behavioral skills,
		comm	unication skills for successful operation of any business
	6.	To cre	ate awareness on new technologies and trends in Post - Harvest technologies
12.	Intend	ded Lear	ning Outcomes of the Course
	The In	tended I	Learning Outcomes (ILOs) are listed under three headings:
	1. Kno	owledge	and Understanding 2. Practical Skills and 3. Capability/Transferable Skills.
	12.1	Knowle	edge and Understanding
		After u	ndergoing this course students will be able to:
		1.	To understand various mechanical, electronics and electrical systems present in food processing machines.
		2.	To understand the concepts of food processing.
		3.	Read and interpret various safety regulations, labor laws connected with industries.
	12.2	Practic	al Skills
		1.	Identify various food processing machines and their applications.
		2.	Read mechanical & electrical drawings and interpret
	12.3	Capabi	lity/Transferable Skills
		After u	ndergoing this course, the student will be able to :
		1.	Manage operations in food processing industry
		2.	Communicate effectively
		3.	Effectively Deal with customers
		4.	Build team and manage team
13.		e Structı	
			quired to successfully complete the following modules for the award of the
	degre	e. The co	ourse is delivered as per the Time-Table for every batch.

Vocational Diploma

	General Education: 12 Credits, 180 Hours				
S. No.	Code	Module Title	Credit	Hours	
1	VGE057	Physics	4	60	
2	VGE069	Mathematics & Statistics	4	60	
3	VGE072	Bio - Chemistry	4	60	
		Vocational Education: 18 Credits, 270 Hours			
S. No.	Code	Module Title	Credit	Hours	
1	VPT001	Basic Workshop Practices (Fitting, Sheet metal, Welding, Rolling, Bending)	6	90	
2	VPT002	Computer Application	6	90	
3	VPT003	Engineering Drawing	6	90	

Semester-1

Semester-2

	General Education: 12 Credits, 180 Hours					
S. No.	Code	Module Title	Credit	Hours		
1	VGE008	Basic Electrical Systems	4	60		
2	VGE039	General Communication - English	4	60		
3	VGE030	Engineering Materials	4	60		
		Vocational Education: 18 Credits, 270 Hours		1		
S. No.	Code	Module Title	Credit	Hours		
1	VPT004	Introduction to Food & Grain Technology	6	90		
2	VPT005	Turning & Milling Operations	6	90		
3	VPT006	Metrology, GD & T Measurements	6	90		

VMT – Vocational Machine Tool

Vocational Advanced Diploma

Semester-1

S. No.	Code	Module Title	Credit	Hours
1	VGE009	Basic Electronic Circuits	4	60
2	VGE011	Basics of Hydraulics & Pneumatics	4	60
3	VGE070	Elements of Mechanical Design	4	60
		Vocational Education: 18 Credits, 270 Hou	irs	
S. No.	Code	Module Title	Credit	Hours
1	VPT007	Fundamentals of Food Engineering	6	90
2	VPT008	Inspection & Quality Control	6	90

Semester-2

S. No.	Code	Module Title	Credit	Hours
1	VGE028	Elements of Mechatronics	4	60
2	VGE063	Sensors & Signals	4	60
3	VGE059	Principles of Management	4	60
Vocatior	nal Education	: 18 Credits, 270 Hours	I	
S. No.	Code	Module Title	Credit	Hours
1	VPT010	Food Processing Engineering - 1	6	90
		Electrical & Electronics Systems Simulation &	6	90
2	VPT011	Analysis		

Vocational Degree

Semester-1

S. No.	Code	Module Title	Credit	Hours
1	VGE023	Customer Relationship Management	4	60
2	VGE013	Business Communication English	4	60
3	VGE071	Industrial Automation	4	60
		Vocational Education: 18 Credits, 270 Hou	irs	
S. No.	Code	Module Title	Credit	Hours
1	VPT013	Food Processing Engineering - 2	6	90
2	VPT014	PLC & Its Applications	6	90
3	VPT015	New Product Development	6	90

Vocational Degree

Semester-2

S. No.	Code	Module Title	Credit	Hours
1	VGE054	Operations Management (include estimation & costing)	4	60
2	VGE041	Good Shop Floor Practices	4	60
3	VGE047	Labor laws, Occupational Health and Safety	4	60
Vocationa	al Education	: 18 Credits, 270 Hours		
S. No.	Code	Module Title	Credit	Hours
1	VPT016	Emerging Technologies in Food Processing	6	90
2	VPT017	Seminars & Presentations	2	30
3	VPT018	Project Work - 2	10	150

14. Delivery Structure

The course is in a semester pattern with an average of 30 hours of interactions per week and 15 weeks per semester

15. Teaching and Learning Methods

The module delivery comprises of a combination of few or all of the following:

- 1. Face to Face Lectures using Audio-Visuals
- 2. Demonstrations
- 3. Laboratory/Field work/Workshop
- 4. Industry Visit
- 5. Group Exercises
- 6. Project Exhibitions
- 7. Technical Festivals

16. Assessment and Grading

Each module is assessed for a total of 100 marks with two tests each of 25 marks and a final examination of 50 marks for general education modules and similar pattern is followed for vocational based modules with emphasis on skills. A candidate is required to score a minimum of 40% overall in each of the modules.

17. Failure

If a student fails in a module, he/she is required to take up the make-up examination.

18. Attendance

A student is required to have a minimum attendance of 75% in each of the modules.

19. Award of Class

As per the Academic Regulations for Vocational Programme.

20. Student Support for Learning

Student are given the following support:

- 1. Module notes
- 2. Reference books in the library
- 3. Magazines and Journals
- 4. Internet facility
- 5. Computing facility
- 6. Laboratory facility
- 7. Workshop facility
- 8. Staff support
- 9. Lounges for discussions
- 10. Any other support that enhances their learning

21. Quality Control Measures

Following are the Quality Control Measures:

- 1. Review of module notes
- 2. Review of question papers
- 3. Student feedback
- 4. Opportunities for the students to see their assessed work
- 5. Staff student consultative committee meetings
- 6. Student exit feedback
- 7. Subject Assessment Board
- 8. Programme Assessment Board

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