

## Minutes of the meeting of 8<sup>th</sup> Board of Studies (BOS) of Department of Applied Agriculture

The 8<sup>th</sup> meeting of the Board of Studies (BOS) of Department of Applied Agriculture was held on 11.05.2022 at 11:00 am onwards in hybrid mode (physical and online) to discuss/finalize the curriculum of PG and Ph.D. programmes being offered by the department. Following members were present.

### *External Experts*

Prof. Narpinder Singh  
Prof. Parmjit Singh Panesar  
Prof. (Mrs.) Madhu Sharma

### *Industry Expert*

Sh. Kumar Saurabh

### *Internal Members*

Prof. Anjana Munshi, HoD and Chairperson  
Dr. Pramod Kumar Kushawah  
Dr. Ruchita Verma  
Dr. Khetan Shevkani  
Dr. Surjeet Singh Dhaka

### *Special Invitee*

Dr. Yashi Srivastava  
Dr. Chidanand Patil

### *Alumni Student*

Ms Aarti Rishi

Prof. Anjana Munshi (HoD and Chairperson) welcomed the members and informed them that the 8<sup>th</sup> meeting of the BOS of the Department of Applied Agriculture is being conducted to finalize the course structure and curriculum of PG and Ph.D. programmes to be offered by the Department from academic session 2022-23. Prof. Ramakrishna Wusirika could not attend the meeting due to prior commitments. The following agenda were discussed and resolutions made.

### **Agenda 8.1: Finalization of course curriculum/syllabi of M.Sc. Food Science and Technology (Batch 2022).**

**Resolution:** The members after going through the curriculum of M.Sc. Food Science and Technology recommended the following changes/modifications made in the syllabi.

- The learning activities added to each unit of each course
- Mapping of course learning outcomes
- Renaming of courses Research Proposal and Dissertation (FST 600) as Dissertation Part I (FST.600) and Dissertation Part II (FST.601).
- The changes suggested by Curriculum Development Committee (as tabulated below) were also recommended for finalization/up-dation of the curriculum of M.Sc. Food Science and Technology.

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S.N.	Course code and Title	Amendment	Topic
<b>Semester I</b>			
1	FST.506; Food Chemistry	Addition and replacement	<ul style="list-style-type: none"> <li>• 'Sources and functions of food proteins' in unit II</li> <li>• Replacement of "phenolic pigments" with "anthocyanins" in unit IV</li> </ul>
2	FST.573; Technology of Spices, Sugar and Chocolate	Addition	<ul style="list-style-type: none"> <li>• 'FSSAI norms for spices and governing body' in Unit II</li> </ul>
<b>Semester II</b>			
3	FST.522; Processing of Cereals and Pseudocereals	Addition	<ul style="list-style-type: none"> <li>• Health benefits of millets in Unit III</li> <li>• Inclusion of a suggested reading - Mir, N.A., Riar, C.S. &amp; Singh, S. (2018). Nutritional constituents of pseudo cereals and their potential use in food systems: A review. Trends in Food Science and Technology, 75, 170-180.</li> </ul>
4	FST.524; Processing of Fruits and Vegetables	Addition	<ul style="list-style-type: none"> <li>• 'Quality assurance in fruits and vegetable industry: HACCP, VACCP and TACCP' in Unit IV</li> </ul>
5	FST.552; Application of Enzymes in Food Processing	Addition	<ul style="list-style-type: none"> <li>• "Enzymatic production of Lipolyzed milk fat" in Unit II</li> </ul>
<b>Semester III</b>			
6	FST.517; Processing of Legumes and Oilseeds	Addition	<ul style="list-style-type: none"> <li>• Inclusion of a suggested reading - RY Yada, Proteins in Food Processing (Second Edition). Woodhead Publishing, Elsevier, Oxford, UK, 2018.</li> </ul>
7	FST.551; Processing of Milk and Milk Products	Addition	<ul style="list-style-type: none"> <li>• 'FSSAI norms for Adulteration in milk' in Unit IV</li> </ul>
8	FST.571; Food Safety, Regulation and Policy	Addition	<ul style="list-style-type: none"> <li>• 'Latest amendments in FSSAI' in Unit IV</li> </ul>

**Agenda 8.2: Finalization of course curriculum/syllabi of MBA (Agribusiness) (Batch 2022).**  
**Resolution:** The members after going through the curriculum of MBA (Agribusiness) recommended the following changes/modifications made in the syllabi.

- The learning activities added to each unit of each course
- Mapping of course learning outcomes
- Renaming of courses Research Proposal and Dissertation (ABM.600) as Dissertation Part I (ABM.600) and Dissertation Part II (ABM.601).

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- The changes suggested by Curriculum Development Committee (as tabulated below) were also recommended for finalization/up-dation of the curriculum of MBA (Agribusiness).

S. No.	Course Code	Course Name	Amendment
1	ABM.507	Marketing Management	<b>Unit I:</b> Recent trends in Marketing; Rural Marketing; <b>Unit IV:</b> Ethics in Marketing;
2	ABM.508	Principles of Management and Organizational Behaviour	<b>Unit II:</b> Centralisation and Decentralisation
3	ABM.528	Agribusiness Environment and Policy	<b>Unit III:</b> Farmer Producer Organizations
4	ABM.592	Summer Internship	<b>Change in evaluation pattern</b>
	<b>Summer Internship (Skill-based)</b>		
		<b>Marks</b>	<b>Evaluation</b>
	Continuous Assessment	50	Internship Reporting (40), Certificate (10)
	Presentation	20	Presentation skills (10), Response to queries (10)
	Report	30	
5	ABM.509	Managerial Economics	<b>(Addition)</b> <b>Unit I:</b> Introduction to Micro Economics, Macro Economics and Managerial Economics - Definitions, Nature of managerial economics <b>Unit II:</b> Demand Analysis - Demand Schedule, Curve, Law of Demand, Exceptions to the Law of Demand, Demand Function & Elasticity of Demand, Demand Forecasting. Supply Analysis - Supply Schedule, Curve, Law of Supply, Supply Function, & Elasticity of Supply. Production Analysis - Factors of Production, Production Function, Short run - Law of Variable Proportions and Long run - Law of Returns to Scale. <b>Unit III:</b> Cost Concept- Types, Function, Cost - Output Relationship in The Short Run, Cost - Output Relationship in The Long Run. Forms of Market and Price Determination under Perfect Competition, Monopoly, Monopolistic Competition and Oligopoly, Pricing Strategies.
6	ABM.576	Agricultural Input Marketing	<b>Suggested reading: (Addition)</b> • Venugopal, P. and Kaundinya, R., 2014,

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			Agri-Input Marketing in India, SAGE Publications.
7	ABM.521	Business Research Methods	<b>Unit I: (Deletion)</b> Writing a research proposal- Contents of a research proposal and types of research proposals. <b>Suggested reading: (Addition)</b> <ul style="list-style-type: none"> <li>• Kumar Ranjit. 2014. Research Methodology- A Step-by-Step Guide for Beginners (4th ed.), SAGE Publications.</li> <li>• Saunders M., Lewis P., and Thornhill, 2007. A. Research Methods for Business Students (4th ed.), Prentice Hall of India.</li> </ul>

**Agenda 8.3 and 8.4: Finalization of course curriculum/syllabi of Ph.D. Food Science and Technology and Ph.D. Agribusiness (Batch 2022).**

**Resolution:** The members were informed that in light of the guidelines of IQAC of the University, two new courses (Teaching Assistantship-ABM.752/FST.752 and Curriculum Pedagogy and Evaluation-UNI.753) were incorporated and implemented from academic year 2021-22. The same was recommended by the members. In addition, learning activities as well as mapping of course learning outcomes were recommended.

**Agenda 8.5: Percent changes made in syllabi.**

Sr. No.	Programme	Percentage changes made (approx.)
1	M.Sc. Food Science and Technology	9%
2	MBA (Agribusiness)	15%
3	Ph.D. Food Science and Technology	28%
4	Ph.D. Agribusiness	32%

**Agenda 8.6: Any other item - Changes made in ABM.591 Rural Immersion Module**

**Resolution:** Day wise activities added in the mode of transaction of ABM.591 Rural Immersion Module as shown below were recommended

ABM.591 Rural Immersion Module - Addition in Modes of transaction	
Day	Activity/Event
1	Meeting and interaction with village head (Sarpanch/Mukhiya)
2	Education facilities (School, College etc.) in the village
3	Interaction with Agriculture officials of Krishi Vigyan Kendra/Agricultural University/Agricultural Departments etc.
4	Meeting with progressive and young farmers in the village (A minimum of 5 farmers)
5	Meeting with small, marginal and women farmers (A minimum of 5 farmers)
6	Agri Input shops- Seeds, Pesticides, Fertilizers, Organic products, Irrigation equipments
7	Farm machinery used by the farmers in the village
8	Forest department/Agro-forestry

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9	Livestock- Cow, Buffalo, Goat, Sheep, Poultry, Fishery etc.
10	Agricultural Marketing Places- APMC/Mandi
11	Agri-entrepreneurs- Motivational factors, cost- benefit analysis, marketing activities, etc.
12	Veterinary services in the village/Veterinary hospitals
13	Banks/Co-operative societies - Agricultural finance, types of loans, subsidy components, NABARD support, etc.
14	Food distribution in the village, Public Distribution System, Fair Price Shops/Ration Shops, Food retail outlets in the village
	Collect certificate from village head

The meeting was ended with a vote of thanks by Prof. Munshi.

*Email Confirmation*

**Prof. Narpinder Singh**  
(Attended online)

*Email Confirmation*

**Prof. (Mrs.) Madhu Sharma**  
(Attended online)

*Online/E-mail confirmation*

**Dr. Pramod Kumar Kushawah**  
(Attended online)

*Khetan*  
25/5/22  
**Dr. Khetan Shevkani**

*Yashi*  
**Dr. Yashi Srivastava**

*Email Confirmation*

**Ms Aarti Rishi**  
(Attended online)

*Anjana*  
**Prof. Anjana Munshi**

*Email Confirmation*

**Prof. Parmjit Singh Panesar**  
(Attended online)

*Email Confirmation*

**Sh. Kumar Saurabh**  
(Attended online)

*Ruchita*  
**Dr. Ruchita Verma**

*Surjeet*  
**Dr. Surjeet Singh Dhaka**

*Chidanand*  
**Dr. Chidanand Patil**  
(Attended online)