



ACHARYA NARENDRA DEVA UNIVERSITY OF  
AGRICULTURE AND TECHNOLOGY, KUMARGANJ,  
AYODHYA-224229



**Choice Based Credit System (P. G. Programme)**

**Department- Agribusiness Management**

**Choice in Major subject**

S.No.	Course Title	Credit Hours
1.	Rural marketing	2 (2+0)
2.	Agricultural marketing management	2 (2+0)
3.	Food technology & processing management	2 (2+0)
4.	Fertilizer technology & management	2 (2+0)
5.	Management of agro-chemical industry	2 (2+0)
6.	Farm business management	2 (2+0)
7.	Seed production technology management	2 (2+0)
8.	Technology management for livestock production	2 (2+0)
9.	Fruit production & post-harvest management	2 (2+0)
10.	Farm power & machinery management	2 (2+0)
11.	International trade & sustainability governance	2 (2+0)
12.	Management of agri-business co-operatives	2 (2+0)
13.	Agribusiness financial management	2 (2+0)
14.	Food retail management	2 (2+0)
15.	Management of agricultural input marketing	2 (2+0)
16.	Feed business management	2 (2+0)
17.	Agri-supply chain management	2 (2+0)
18.	Management of veterinary hospital	2 (2+0)
19.	Poultry and hatchery management	2 (2+0)
20.	Management of floriculture and landscape	2 (2+0)
	<b>Total credit hours of elective courses offered by department</b>	<b>40</b>
	<b>Minimum number of credit hours has to be study</b>	<b>10</b>
	<b>Choice Percentage</b>	<b>400 %</b>


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**Department- Food Science and Nutrition  
Choice in Major subject**

S.No.	Course Title	Credit Hours
1.	Food Processing Technology	3(3+0)
2.	Clinical Nutrition	4(2+2)
3.	Nutrition During Life Science	3(3+0)
4.	Nutrition and Physical Fitness	3(2+1)
5.	Advanced Diet Therapy	3(2+1)
6.	Food Toxicology	2(2+0)
7.	Advanced Human Physiology	3(2+1)
8.	Food Service Management	3(1+2)
9.	Food Product Development	2(1+1)
10.	Nutrition and Immunity	2(2+0)
	<b>Minimum of 07 credits are to be studied</b>	<b>28</b>
	<b>Choice Percentage</b>	<b>400%</b>

**Department- Human Development and Family Studies  
Choice in Major subject**

S.No.	Course Title	Credit Hours
1.	Methods and Techniques of Assessment in Human Development	3(2+1)
2.	Innovative Programmes in Early Childhood Care and Education	3(1+2)
3.	Guidance and Counseling	3(1+2)
4.	Parent and Community Education	3(1+2)
5.	Appraisal of Child and Family Welfare Institutions	2(1+1)
6.	Development of Learning Material and Children's Literature	3(1+2)
7.	Adolescent Development and Challenges	3(2+1)
8.	Gerontology	3(2+1)
9.	Family Therapy	3(2+1)
	<b>Minimum of 8 credits are to be studied</b>	<b>26</b>
	<b>Choice Percentage</b>	<b>325%</b>

  
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**Department- Family Resource Management and Consumer Science  
Choice in Major subject**

S.No.	Course Title	Credit Hours
1.	Consumer Economics	3(2+1)
2.	Interior Design Business Management	3(2+1)
3.	Furniture Design and Fabrication	3(2+1)
4.	Colour and Lighting in Interiors	3(2+1)
5.	Consumer Communication Media	3(1+2)
6.	Product Design, Testing and Evaluation	3(1+2)
7.	Retail Management	3(2+1)
8.	Advanced CAD for Product Design	4(0+4)
9.	Energy conservation in building design	3(2+1)
10.	Consumer Issues and Challenges	3(2+1)
11.	Work and Work Station Design	3(1+2)
12.	Consumer Guidance and Counselling	3(1+2)
	<b>Minimum of 8 credits are to be studied</b>	<b>37</b>
	<b>Choice Percentage</b>	<b>462%</b>

**Department of Fisheries Resource Management**

S. No.	COURSE TITLE	Credit Hours
1.	Fisheries Regulations	3(2+1)
2.	Remote Sensing and Gis for Fisheries Management	2(1+1)
3.	Integrated Coastal Zone Management	3(2+1)
4.	Aquatic Floral Resources	3(2+1)
5.	Feeding And Reproductive Biology of Finfish And Shellfish	3(2+1)
6.	Developmental Biology of Finfish And Shellfish	3(2+1)
7.	Fishing and Allied Technologies	3(2+1)
8.	Modern Techniques in Ichthyotaxonomy	3(2+1)
	<b>Minimum of 08 credits are to be studied</b>	<b>23</b>
	<b>Choice Percentage</b>	<b>287%</b>

  
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### Department of Aquaculture

S. No.	COURSE TITLE	Credit Hours
1.	Seed Production and Hatchery Management Of Finfishes	3(2+1)
2.	Seed Production and Hatchery Management Of Shellfishes	3(1+1)
3.	Applied Genetics in Aquaculture	3(2+1)
4.	Non-Food Aquaculture	2(1+1)
5.	Coastal Aquaculture	3(2+1)
6.	Freshwater Aquaculture	3(2+1)
7.	Larval Nutrition and Culture of Food Organisms	2(1+1)
8.	Aquaculture Engineering	3(2+1)
	<b>Minimum of 08 credits are to be studied</b>	<b>22</b>
	<b>Choice Percentage</b>	<b>275%</b>

### Department of Fruit Science

S. No.	COURSE TITLE	Credit Hours
1.	Climate Management in Horticultural Production	1(1+0)
2.	Biotechnology of Horticultural Crops	3(2+1)
3.	Protected Cultivation	3(2+1)
4.	Canopy Management in Fruit Crops	2(1+1)
5.	Growth and Development of Horticultural Crops	3(2+1)
6.	Gap For Horticultural Crops	1(1+0)
7.	Post Harvest Technology for Fruit Crops	3(2+1)
8.	Organic Horticulture	2(1+1)
	<b>Minimum of 08 credits are to be studied</b>	<b>18</b>
	<b>Choice Percentage</b>	<b>225%</b>

### Department of Vegetable Science

S. No.	COURSE TITLE	Credit Hours
1.	Systematics of Vegetable Crops	2(1+1)
2.	Fundamentals of Processing of Vegetables	2(1+1)
3.	Organic Vegetable Production Technology	2(1+1)

  
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4.	Seed Production Technology of Vegetable Crops	3(2+1)
5.	Production Technology of Under Exploited Vegetable Crops	3(2+1)
	<b>Minimum of 08 credits are to be studied</b>	<b>12</b>
	<b>Choice Percentage</b>	<b>150%</b>

#### Department- Computer Science and Engineering

S.No.	Course Title	Credit Hours
1.	Simulation And Modelling	4(3+1)
2.	Digital Control	4(3+1)
3.	Satellite Communication	4(3+1)
4.	Mobile Computing	4(3+1)
5.	VLSI Technology	4(3+1)
6.	Image Processing	4(3+1)
7.	Data Mining and Ware Processing	4(3+1)
	<b>Minimum of 12 credits to be studied</b>	<b>28</b>
	<b>Choice Percentage</b>	<b>233 %</b>

#### Department- Mechanical Engineering

S.No.	Course Title	Credit Hours
1.	Nuclear Engineering	4(3+1)
2.	Solar Thermal processes	4(3+1)
3.	Design of Rota-Dynamic Pumps	4(3+1)
4.	Bearing and Lubrication	4(3+1)
5.	Design of Blowers and Rotary Compressors	4(3+1)
6.	Non-Conventional Energy Sources and Systems	4(3+1)
7.	Fuels And Combustions	4(3+1)
8.	Metrology	4(3+1)
	<b>Minimum of 12 credits to be studied</b>	<b>32</b>
	<b>Choice Percentage</b>	<b>266%</b>

  
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### Department- Irrigation and Drainage Engineering

S.No	Course Title	Credit Hours
1.	Watershed Hydrology	3(2+1)
2.	Water Quality and Environment	3(3+0)
3.	Open-Channel Flow	2(2+0)
4.	Soil and Water Conservation Engineering	3(2+1)
5.	Sediment Transport	3(2+1)
	<b>Minimum of 10 credits are to be studied</b>	<b>14</b>
	<b>Choice Percentage</b>	<b>140%</b>

### Department- Soil and Water Conservation Engineering

S.No.	Course Title	Credit Hours
1.	Agricultural drainage Systems	3(2+1)
2.	Design of farm irrigation systems	3(2+1)
3.	Crop Environmental Engineering	3(3+0)
4.	Ground Water Engineering	3(2+1)
5.	Flow through Porous Media	2(2+0)
	<b>Minimum of 10 credits are to be studied</b>	<b>14</b>
	<b>Choice Percentage</b>	<b>140%</b>

### Department- Farm Machinery and Power Engineering

S.No.	Course Title	Credit Hours
1.	Agro-energy Audit and Management	3(3+0)
2.	Energy from Biomass	3(3+0)
3.	Design and Analysis of renewable energy conversion systems	3(2+1)
4.	Engineering Properties of Biological Materials	3(2+1)
5.	Unit Operations in Food Process Engineering	3(2+1)
	<b>Minimum of 10 credits are to be studied</b>	<b>15</b>
	<b>Choice Percentage</b>	<b>150%</b>

### Department- Processing and Food Engineering

S.No.	Course Title	Credit Hours
1.	Agro-energy Audit and Management	3(3+0)
2.	Energy from Biomass	3(3+0)
3.	Design and Analysis of renewable energy conversion systems	3(2+1)
4.	Design of Farm Power and Machinery	3(2+1)
5.	Testing and Evaluation of Agricultural Equipment	3(2+1)
	<b>Minimum of 10 credits are to be studied</b>	<b>15</b>
	<b>Choice Percentage</b>	<b>150%</b>



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### Department- Extension Education

S.No.	Course Title	Credit Hours
1	Entrepreneurship development	2(1+1)
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2	Diffusion and adoption of innovation	2(1+1)
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3	Visual and graphics communication	2(1+1)
.		
4	Methods of social research	3(2+1)
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5	Programme planning in extension education	2(1+1)
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6	Communication media & information technology	2(1+1)
.		
7	Rural community work experience	1(0+1)
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8	Process of photography	1(0+1)
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9	Agricultural Journalism	2(1+1)
.		
10.	Seminar	1(1+0)
11.	Training Methodology	2(1+1)
12.	Training for Human Resource Development	3(2+1)
13.	Management in Extension	2(1+1)
	<b>Minimum of 12 credits to be studied</b>	<b>26</b>
	<b>Choice Percentage</b>	<b>216%</b>

  
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## Choice Based Credit System (Ph.D. Programme)

### Department- Food science and nutrition

#### Choice in Major subject

S.No.	Course Title	Credit Hours
1.	Advances in Food Sciences and Technology	3(2+1)
2.	Advances in energy metabolism	2(2+0)
3.	Nutrition and Agriculture Interface	3(3+0)
4.	Nutrition in Emergencies	2(2+0)
5.	Application of Biotechnology in Food Science and Nutrition	2(2+0)
6.	Global Nutritional Problem	2(2+0)
7.	Maternal and child Nutrition	3(2+1)
	<b>Minimum of 06 credits are to be studied</b>	<b>17</b>
	<b>Choice Percentage</b>	<b>283%</b>

### Department- Human Development and Family Studies


#### Choice in Major subject

S. No.	Course Title	Credit Hours
1	Principles and Strategies in Developmental Intervention	3(2+1)
2	Trends and Issues in Human Development	3(3+0)
3	Qualitative Research Methods	3(2+1)
4	Women Studies	2(1+1)
5	Ecology and Human Development	3(3+0)
6	Cross-cultural Perspectives in Family Studies	2(2+0)
	<b>Minimum of 06 credits are to be studied</b>	<b>16</b>
	<b>Choice Percentage</b>	<b>266%</b>

### Department- Family Resource Management and Consumer Science

#### Choice in Major subject

S.No	Course Title	Credit Hours
1.	Family Dynamics and Women Power	3(2+1)
2.	Consumer Product Design	3(1+2)
3.	Managerial Dimensions for Special Groups	3(2+1)
4.	Environmental Issues and Challenges	3(3+0)
	<b>Minimum of 06 credits are to be studied</b>	<b>12</b>
	<b>Choice Percentage</b>	<b>200%</b>

  
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**Department- Fruit Science**

**Choice in Major subject**

S. No.	COURSE TITLE	Credit Hours
1.	Abiotic Stress Management in Fruit Crops	3(2+1)
2.	Biodiversity and Conservation of Fruit Crops	3(2+1)
3.	Recent Developments in Growth Regulation	3(3+0)
4.	Advanced Laboratory Techniques	3(1+2)
5.	Arid and Dry Land Fruit Production	2(2+0)
6.	Smart Fruit Production	2(2+0)
	<b>Minimum of 06 credits are to be studied</b>	<b>16</b>
	<b>Choice Percentage</b>	<b>266%</b>

**Department- Extension Education**

S.No.	Course Title	Credit Hours
1.	Entrepreneurship development	2(1+1)
2.	Gender Issue in Rural Development	2(1+1)
3.	Information & Communication Technology	2(1+1)
4.	Advanced Instructional Technology	3(2+1)
5.	Organizational Development	2(1+1)
6.	Transfer Technology in Agriculture	3(2+1)
7.	Media Management	3(2+1)
8.	Seminar	2(0+2)
	<b>Minimum of 09 credits to be studied</b>	<b>19</b>
	<b>Choice Percentage</b>	<b>211%</b>

  
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## Choice Based Credit System (U. G. Programme)

### STUDENT READY EXPERIENTIAL MODULE: (Final Year students)-Fisheries

S.No.	Course Title	Percentage (%)
1	2	3
1.	<p><b>Student Ready Experiential Module</b> <span style="float: right;"><b>Credit hours-12</b></span></p> <p><b>a) Skill Development (for one week):</b>                      Aquarium fabrication, Analysis of soil and water quality parameters, Preparation of Fish products or in any appropriate applied aspect of fisheries</p> <p><b>b) Experiential Learning Programme:</b>                      A minimum two areas has to select by students with concern of teachers.</p> <ol style="list-style-type: none"> <li>1. Ornamental Fish Culture</li> <li>2. Seed Production</li> <li>3. Trade and Export Management</li> <li>4. Aqua Clinic</li> <li>5. Post Harvest Technology</li> <li>6. Aqua Farming.</li> </ol> <p><b>Project work:</b> Student will prepare a research project plan and it will be presented in-front of committee appointed by the Dean of the respective college. Also, for each student, one advisor will be provided, who will guide the student in completion of proposed research plan. Relevant or interested area of specialization for project work are:</p> <ol style="list-style-type: none"> <li>1. Fish Pathology</li> <li>2. Fish Diagnosis</li> <li>3. Fish Pharmacology</li> <li>4. Fish Toxicology</li> <li>5. Fish Nutrition</li> <li>6. Fish Immunology</li> <li>7. Fish Genetics and Breeding</li> <li>8. Ornamental Fish Production</li> <li>9. Genomics in Aquaculture</li> <li>10. Fish Stock Assessment</li> <li>11. Aquatic Pollution</li> <li>12. Fish Value Addition</li> <li>13. Fish in Nutrition</li> <li>14. Fish Processing</li> <li>15. Waste Management</li> <li>16. Quality Control and Quality Assurance</li> <li>17. Fish Products and By-products etc.</li> </ol>	<p style="text-align: center;"><b>400%</b></p> <p style="text-align: center;"><b>300%</b></p> <p>Choice is available to students to select relevant or interested area of specialization as listed in column 2</p>

  
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**STUDENT READY PROGRAMME (Final Year students): Community Science****Module-1 Product Development and Entrepreneurship**

S.No.	Course Title	Credit Hours
1.	Apparel Designing Technique-Flat Pattern and Draping	3(0+3)
2.	Principles of Textile Designing	3(0+3)
3.	Fashion Illustrations	3(0+3)
4.	Computer Aided Designing-Pattern Designing	2(0+2)
5.	Retailing and merchandising-Textiles and Apparel	2(0+2)
6.	Instructional Video Production	3(0+3)
7.	Print and electronic Journalism	3(0+3)
8.	Web designing and multimedia production marketing	4(0+4)
9.	Public relations and social Marketing	3(0+3)
10.	Seminar	1(1+0)
11.	Event Management	3(0+3)
12.	Interior Design and Decoration	3(0+3)
13.	Computer Aided Interior Designing	4(0+4)
	<b>Minimum of 20 credits to be studied</b>	<b>37</b>
	<b>Choice Percentage (%)</b>	<b>185%</b>

**Module-2 Community Nutrition and Welfare**

S.No.	Course Title	Credit Hours
1.	Print and Electronic Journalism	3(0+3)
2.	Web designing and multimedia production marketing	4(0+4)
3.	Instructional Video Production	3(0+3)
4.	Diet and Nutrition Counseling	3(0+3)
5.	Food Preservation and storage	3(0+3)
6.	Food Service and hospitality Management	3(0+3)
7.	Nutraceuticals and Health Foods	3(0+3)
8.	Methods and Materials for Teaching Young Children	4(0+4)
9.	Education and Counseling for Parents and community	2(0+2)
10.	Early Childhood Care, Education and Management	4(0+4)
11.	Developmental Assessment of young Children	3(0+3)
12.	Seminar	1(1+0)
	<b>Minimum of 20 credits to be studied</b>	<b>36</b>
	<b>Choice Percentage (%)</b>	<b>180%</b>



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**STUDENT READY PROGRAMME (Final Year students): Horticulture and Forestry**

S.No.	Course Title	Percentage (%)
1.	<p><b>A minimum of two areas should be decided by each university for students.</b></p> <ol style="list-style-type: none"> <li>1. Commercial Horticulture</li> <li>2. Processing of Fruits and Vegetables for Value Addition</li> <li>3. Mushroom culture</li> <li>4. Protective Cultivation of High Value Horticulture Crops</li> <li>5. Bio-inputs: Bio-fertilizers and Bio-pesticides</li> <li>6. Floriculture and landscape architecture</li> <li>7. Mass Multiplication of Plant and Molecules through Tissue Culture</li> <li>8. Bee keeping</li> </ol>	<b>400%</b>

**Elective Courses of Agricultural Engineering (Final Year)**

<b>Department of Soil and Water Engineering</b>		
S.No.	Course Title	Credit Hours
1.	Floods and Control Measures	3(2+1)
2.	Watershed Development	3(2+1)
3.	Information technology for Land and Water Management	3(2+1)
<b>Department of Irrigation and Drainage Engineering</b>		
4.	Management of Canal Irrigation System	3(2+1)
5.	Minor Irrigation and Command Area Development	3(2+1)
6.	Water Quality and Management Measures	3(2+1)
7.	Landscape Irrigation Design and Management	3(2+1)
8.	Hydraulic Drives and Controls	3(2+1)
<b>Department of Farm Machinery and Power Engineering</b>		
9.	Precision farming Techniques for Protected Cultivation	3(2+1)
10.	Mechanics of Tillage and Traction	3(2+1)
11.	Farm machinery Design and Applications	3(2+1)
12.	Tractor Design and Testing	3(2+1)
13.	Precision Agriculture and System Management	3(2+1)
<b>Department of Processing and Food Engineering</b>		
14.	Plastic Applications in Agriculture	3(2+1)



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15.	Food Quality and Control	3(2+1)
16.	Food Plant Design and Management	3(2+1)
17.	Food Packaging Technology	3(2+1)
18.	Development of Processed Products	3(2+1)
19.	Process Equipment Design	3(2+1)
20.	Waste and By-Products Utilization	3(2+1)
<b>Department of Renewable Energy Engineering</b>		
21.	Human Engineering and Safety	3(2+1)
22.	Photovoltaic Technology and System	3(2+1)
<b>Department of Basic Engineering and Applied Sciences</b>		
23.	Artificial Intelligence	3(3+0)
24.	Remote Sensing and GIS Applications	3(2+1)
25.	Mechatronics	3(2+1)
	<b>Minimum of 09 credits (one course from any department) to be studied</b>	<b>36</b>
	<b>Choice Percentage</b>	<b>400%</b>

  
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## Choice Based Credit System (U.G. Programme) AGRICULTURE


### Choice in Elective Courses

S. No.	Course Title	Credit Hours
<b>B.Sc. (Ag.) 2<sup>nd</sup> year (2<sup>nd</sup> semester)</b>		
1.	Agri-Business Management	3(2+1)
2.	Commercial Plant Breeding	3(1+2)
3.	Agro-chemicals	3(2+1)
4.	Landscaping	3(2+1)
	<b>Minimum of 03 credits are to be studied</b>	<b>12</b>
	<b>Choice Percentage</b>	<b>400 %</b>
<b>B.Sc.(Ag.) 3<sup>rd</sup> year (1<sup>st</sup> semester)</b>		
1.	Food Safety and Standards	3(2+1)
2.	Biopesticides and Biofertilizers	3(2+1)
3.	Protected Cultivation	3(2+1)
4.	Micro Propagation Technologies	3(1+2)
	<b>Minimum of 03 credits are to be studied</b>	<b>12</b>
	<b>Choice Percentage</b>	<b>400 %</b>
<b>B.Sc.(Ag.) 3<sup>rd</sup> year (2<sup>nd</sup> semester)</b>		
1.	High tech. Horticulture	3(2+1)
2.	Weed Management	3(2+1)
3.	System Simulation and Agro-Advisory	3(2+1)
4.	Agricultural Journal	3(2+1)
	<b>Minimum of 03 credits are to be studied</b>	<b>12</b>
	<b>Choice Percentage</b>	<b>400 %</b>

  
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## Choice Based Credit System (Minor & Supporting)

Programme	Minor: The student has to study any 09 credits from following departments as per choice	Supporting subject: The student has to study 05 credits as per choice
M.Sc. Ag. (Agronomy)	Soil science	Crop physiology, Agril. Statistics, Agril. Metrology
M.Sc. Ag. (Agril. Economics)	Agril. Statistics	Extension education
M.Sc. Ag. (Agril. Statistics)	Agril. Economics	Extension education
M.Sc. Ag. (Agril. Biochemistry)	Biotechnology, Crop physiology	GPB, Agril. Statistics
M.Sc. Ag. (Crop Physiology)	GPB, Biotechnology	Biochemistry, Agril. Statistics
M.Sc. Ag. (Entomology)	Plant pathology	Agril. Statistics
M.Sc. Ag. (GPB)	Seed Technology, Biotechnology	Crop physiology, Agril. Statistics
M.Sc. Ag. (Plant Pathology)	Entomology	Genetics, Biotechnology, Agril. Statistics
M.Sc. Ag. (Soil Science)	Agronomy	Agro metrology, Crop physiology, Agril. Statistics
M.Sc. Ag. (Agril. Extension Education)	Agril. Economics	Agril. Statistics

  
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M.Sc. Ag. (Agrometrology)	Agronomy, Soil science	Crop physiology, Agril. Statistics
M.Sc. Ag. (PMB&GE)	Biochemistry, GPB	Biochemistry Crop physiology, Agril. Statistics
M.Sc. Ag. (SS&T)	GPB	Crop physiology, Agril. Statistics
M.B.A. (Agribusiness)	Entomology, Seed Science, Agri. Economics, Horticulture, Veterinary	Agril. Statistics, Computer application
M.V.Sc. Veterinary Biochemistry	Veterinary Physiology, Veterinary Medicine, Animal Nutrition, Animal Genetics and Breeding, Livestock Production Management, Pharmacology and Toxicology, Microbiology, Parasitology, Pathology, Gynaecology.	Veterinary Biochemistry, Veterinary Extension Education, Veterinary Physiology, Animal Reproduction Gynaecology and Obstetrics, Veterinary Surgery and Radiology
M.V.Sc Veterinary Extension Education	Animal Nutrition, Livestock Production Management, Veterinary Public Health and Epidemiology, LPT.	
M.V.Sc Veterinary Physiology	Animal Nutrition, Veterinary Biochemistry, Gynaecology and Obstetrics, Animal Genetics and Breeding, Veterinary Surgery and Radiology, Livestock Production Management, Veterinary Pharmacology and Toxicology, Anatomy, Veterinary Medicine, Veterinary pathology.	



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M.V.Sc Animal Reproduction Gynaecology and Obstetrics	Veterinary Pathology, Veterinary Pharmacology, Veterinary Physiology, Veterinary Biochemistry, Veterinary Bacteriology, Veterinary Immunology	
M.V.Sc Veterinary Surgery and Radiology	Veterinary Physiology, Veterinary Biochemistry, Veterinary Biotechnology, Veterinary Anatomy, Veterinary Medicine, Veterinary Pathology, Animal Reproduction, Gynaecology and Obstetrics	
M.V.Sc Veterinary Medicine	Veterinary Physiology, Veterinary Microbiology, Veterinary Parasitology, Veterinary Pharmacology and Toxicology, Veterinary Surgery and Radiology, Veterinary Public Health and Epidemiology	
M.Sc. Fruit Science	Post harvest Management, Vegetable Science, Floriculture and Landscaping	Physiology, Biochemistry, Genetics, Soil Science, Pathology, Statistics, Research Methodology
M.Sc. Post harvest Management	Fruit Science, Vegetable Science, Floriculture and Landscaping	Physiology, Biochemistry, Soil Science, Pathology, Statistics, Genetics, Research Methodology
M.Sc. Vegetable Science	Post harvest Management, Fruit Science, Floriculture and Landscaping	Genetics, Physiology, Biochemistry, Soil Science, Pathology, Statistics, Research Methodology
M.Sc. Floriculture and Landscaping	Post harvest Management, Vegetable Science, Fruit Science	Genetics, Physiology, Biochemistry, Soil Science, Pathology, Statistics, Research Methodology
M.Sc. Agroforestry	Fruit Science, Post harvest Management, Vegetable Science, Floriculture and Landscaping	Physiology, Biochemistry, Soil Science, Pathology, Statistics, Research Methodology
M.Sc. Food science and nutrition	Biochemistry, Microbiology and Post-Harvest	Statistics, Research methodology

  
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M.Sc. Human Development and Family Studies	FSN and Extension	Statistics, Research methodology
M.Sc. Family Resource Management and Consumer Science	Fruit science, Floriculture and Agriculture Extension	Statistics, Research methodology
M.F.Sc. Fisheries Resource Management	Aquaculture	Statistics, Research methodology
M.F.Sc. Aquaculture	Fisheries Resource Management	Statistics, Research methodology
<b>Programme</b>	<b>Minor: The student has to study 10 credits as per choice</b>	<b>Supporting subject: The student has to study 12 credits as per choice</b>
M.Tech. Irrigation and Drainage Engineering	Watershed Hydrology, Water Quality and Environment, Open-Channel Flow, Soil and Water Conservation Engineering, Sediment Transport	Transformation and Calculus of variations, Statistical Methods, Fluid Mechanics, Numerical Techniques for Computer
M.Tech. Soil and Water Conservation Engineering	Agricultural drainage Systems, Design of Farm Irrigation Systems, Crop Environmental Engineering, Ground Water Engineering, Flow through Porous Media	Transformation and Calculus of variations, Statistical Methods, Fluid Mechanics, Numerical Techniques for Computer
M.Tech. Farm Machinery and Power Engineering	Agro-energy Audit and Management, Energy from Biomass, Design and Analysis of renewable energy conversion systems, Engineering Properties of Biological Materials, Unit Operations in Food Process Engineering	Transformation and Calculus of variations, Statistical Methods, Fluid Mechanics, Numerical Techniques for Computer
M.Tech. Processing and Food Engineering	Agro-energy Audit and Management, Energy from Biomass, Design and Analysis of renewable energy conversion systems, Design of Farm Power and Machinery, Testing and Evaluation of Agricultural	Transformation and Calculus of variations, Statistical Methods, Fluid Mechanics, Numerical

  
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	Equipment	Techniques for Computer
<b>Programme</b>	<b>Minor: The student has to study any 08 credits from following departments as per choice</b>	<b>Supporting subject: The student has to study 05 credits as per choice</b>
Ph. D. (Agronomy)	Soil science	Crop physiology, Agril. Statistics, Agril. Metrology
Ph. D. (Agril. Economics)	Agril. Statistics	Extension education
Ph. D. (Agril. Statistics)	Agril. Economics	Extension education
Ph. D. (Agril. Biochemistry)	Biotechnology, Crop physiology	GPB, Agril. Statistics
Ph. D. (Crop Physiology)	GPB, Biotechnology	Biochemistry, Agril. Statistics
Ph. D. (Entomology)	Plant pathology	Agril. Statistics
Ph. D. (GPB)	Seed Technology, Biotechnology	Crop physiology, Agril. Statistics
Ph. D. (Plant Pathology)	Entomology	Genetics, Biotechnology, Agril. Statistics
Ph. D. (Soil Science)	Agronomy	Agro metrology, Crop physiology, Agril. Statistics
Ph. D. (Agril. Extension Education)	Agril. Economics	Agril. Statistics
Ph. D. (Agrometrology)	Agronomy, Soil science	Crop physiology, Agril. Statistics
Ph. D. (PMB&GE)	Biochemistry, GPB	Biochemistry Crop physiology, Agril. Statistics
Ph,D, Fruit Science	Post harvest Management, Vegetable Science, Floriculture and Landscaping	Physiology, Biochemistry, Genetics, Soil Science, Pathology, Statistics,

  
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		Research Methodology
Ph,D, Vegetable Science	Post harvest Management, Fruit Science, Floriculture and Landscaping	Genetics, Physiology, Biochemistry, Soil Science, Pathology, Statistics, Research Methodology
Ph,D, Floriculture and Landscaping	Post harvest Management, Vegetable Science, Fruit Science	Genetics, Physiology, Biochemistry, Soil Science, Pathology, Statistics, Research Methodology
Ph,D, Agroforestry	Fruit Science, Post harvest Management, Vegetable Science, Floriculture and Landscaping	Physiology, Biochemistry, Soil Science, Pathology, Statistics, Retsearch Methodology
Ph.D. Food science and nutrition	Biochemistry, Microbiology and Post-harvest	Statistics, Research methodology
Ph.D. Human Development and Family Studies	FSN and Extension	Statistics, Research methodology
Ph.D. Family Resource Management and Consumer Science	Fruit science, Floriculture and Agriculture Extension	Statistics, Research methodology



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**Table 1. Suggested list of specified minor subjects (departments)**

<b>Major Subject</b>	<b>Minor Subjects*</b>
Animal Reproduction Gynecology and Obstetrics	Veterinary Surgery & Radiology, Veterinary Physiology, Veterinary Biochemistry, Veterinary Clinical Medicine, Ethics & Jurisprudence, Animal Biotechnology, Veterinary Pharmacology & Toxicology, Animal Nutrition
Veterinary Clinical Medicine, Ethics & Jurisprudence	Veterinary Surgery and Radiology, Veterinary Epidemiology and Preventive Medicine, Veterinary Pharmacology & Toxicology, Veterinary Physiology, Veterinary Biochemistry, Animal Reproduction Gynaecology and Obstetrics
Veterinary Epidemiology and Preventive Medicine	Veterinary Microbiology, Animal Biotechnology, Veterinary Clinical Medicine, Ethics & Jurisprudence, Veterinary Public Health, Veterinary Pathology
Veterinary Public Health	Veterinary Epidemiology and Preventive Medicine, Veterinary Microbiology, Veterinary Pathology, Animal Biotechnology, Veterinary Pharmacology & Toxicology, Veterinary Parasitology, Livestock Product Technology
Veterinary Surgery and Radiology	Veterinary Anatomy and Histology, Veterinary Clinical Medicine, Ethics & Jurisprudence, Veterinary Pharmacology & Toxicology, Veterinary Physiology, Veterinary Pathology, Animal Reproduction Gynaecology and Obstetrics

\*The choice of minor courses other than those listed above, may be allowed on the recommendations of advisory committee, if essentially required as per the research problem, with the concurrence of Head of the department and Dean post graduate studies.

  
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