



# SCHEME

For

**Bachelor of Science Honours in Horticulture**

As per, ICAR Norms 6<sup>th</sup> Dean Committee

Department of Agriculture Science  
Faculty of Agriculture Science

Duration of Course: 4 Years

Examination Mode: Semester

**Mahakaushal University, Aithakheda, Mukunwara, Chargawan**

**Road Tilwara Jabalpur (M.P.) 482003**

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Scheme: B.Sc.(Horticulture)- 1<sup>st</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
<b>BSHR0101</b>	Induction cum foundation course (Deeksh aarambh)	-	-	-	NG	-	-	-	-		
<b>BSHR0102-T</b>	Fundamentals of Horticulture	2	0	0	2	50	30	80	40	-	-
<b>BSHR0103-T</b>	Plant Propagation and Nursery Management of Fruit and Plantation crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0104-T</b>	Commercial production of Flower crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0105-T</b>	Farming Based Livelihood Systems	2	0	0	2	50	30	80	40	-	-
<b>BSHR0106-T</b>	Sprinkler and Micro irrigation systems	1	0	0	1	50	30	80	40	-	-
<b>BSHR0107-T</b>	Communication Skills	1	0	0	1	50	30	80	40	-	-
<b>BSEH0101-P</b>	Skill Enhancement Course – I -Lab	0	0	4	4	-	-	-	-	20	10
<b>BSHR0102-P</b>	Fundamentals of Horticulture - Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0103-P</b>	Plant Propagation and Nursery Management of Fruit and Plantation crops -Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0104-P</b>	Commercial production of Flower crops -Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0105-P</b>	Farming Based Livelihood Systems -Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0106-P</b>	Sprinkler and Micro	0	0	1	1	-	-	-	-	20	10

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	irrigation systems -Lab										
<b>BSHR0107-P</b>	Communication Skills -Lab	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20</b>	<b>10</b>
<b>BSHR0108-P</b>	NCC-I/NSS-I	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20</b>	<b>10</b>
<b>Total</b>					<b>21</b>	<b>300</b>	<b>180</b>	<b>480</b>		<b>160</b>	

**\*R: Remedial course; \*\*NC: Non-gradual course**

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## Scheme: B.Sc.(Horticulture)-II<sup>nd</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
<b>BSHR0201-T</b>	Introduction to Major Field crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0202-T</b>	Commercial Production of Spices and Plantation crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0203-T</b>	Plant Propagation and Nursery Management in Vegetables, Flowers and Medicinal crops	1	0	0	1	50	30	80	40	-	-
<b>BSHR0204-T</b>	Personality Development	1	0	0	1	50	30	80	40	-	-
<b>BSHR0205-T</b>	Entrepreneurship Development and Business Management	2	0	0	2	50	30	80	40	-	-
<b>BSHR0206-T</b>	Environmental Studies and Disaster Management	2	0	0	2	50	30	80	40	-	-
<b>BSEH0201-P</b>	Skill Enhancement Courses (SEC-II)*-Lab	0	0	4	4	-	-	-	-	20	10
<b>BSHR0201-P</b>	Introduction to Major Field crops-Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0202-P</b>	Commercial Production of Spices and Plantation crops-Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0203-P</b>	Plant Propagation and Nursery Management in Vegetables, Flowers and Medicinal crops-Lab	0	0	2	2	-	-	-	-	20	10
<b>BSHR0204-P</b>	Personality Development-Lab	0	0	1	1	-	-	-	-	20	10

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<b>BSHR0205-P</b>	Entrepreneurship Development and Business Management-Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0206-P</b>	Environmental Studies and Disaster Management-Lab	0	0	1	1	-	-	-	-	20	10
<b>BSHR0207-P</b>	NCC-II/NSS-II	-	-	-	-	-	-	-	-	20	10
<b>Total</b>					21	300	180	480		160	

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## Scheme: B.Sc.(Horticulture)-III<sup>rd</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
BSHR0301-T	Fundamentals of Soil Science	2	0	0	2	50	30	80	40	-	-
BSHR0302-T	Commercial Fruit Production	3	0	0	3	50	30	80	40	-	-
BSHR0303-T	Precision Farming and Protected Cultivation	2	0	0	2	50	30	80	40	-	-
BSHR0304-T	Seed Production of Vegetable, Tuber and Spice crops	2	0	0	2	50	30	80	40	-	-
BSHR0305-T	Disease Management of Horticulture crops	2	0	0	2	50	30	80	40	-	-
BSEH0301-P	Skill Enhancement Courses (SEC-III)*	0	0	2	2	-	-	-	-	20	10
BSHR0301-P	Fundamentals of Soil Science	0	0	1	1	-	-	-	-	20	10
BSHR0302-P	Commercial Fruit Production	0	0	1	1	-	-	-	-	20	10
BSHR0303-P	Precision Farming and Protected Cultivation	0	0	1	1	-	-	-	-	20	10
BSHR0304-P	Seed Production of Vegetable, Tuber and Spice crops	0	0	1	1	-	-	-	-	20	10
BSHR0305-P	Disease Management of Horticulture crops	0	0	1	1	-	-	-	-	20	10
BSHR0306-P	Physical Education, First Aid, Yoga Practices and Meditation	0	0	2	2	-	-	-	-	20	10
<b>Total</b>					20	250	150	400		140	

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Scheme: B.Sc.(Horticulture)-IV<sup>th</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
<b>BSHR0401-T</b>	Commercial Vegetable Production	3	0	0	3	50	30	80	40	-	-
<b>BSHR0402-T</b>	Farm Power and Machinery for Horticulture	2	0	0	2	50	30	80	40	-	-
<b>BSHR0403-T</b>	Agricultural Informatics and Artificial Intelligence	2	0	0	2	50	30	80	40	-	-
<b>BSHR0404-T</b>	Urban and Peri Urban Horticulture	1	0	0	1	50	30	80	40	-	-
<b>BSHR0405-T</b>	Agriculture Marketing and Trade	2	0	0	2	50	30	80	40	-	-
<b>BSHR0406-T</b>	Pest Management of Horticulture crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0407-T</b>	Introductory Agro-meteorology and Climate Change	1	0	0	1	50	30	80	40	-	-
<b>BSEH0401-P</b>	Skill Enhancement Courses (SEC-IV)*	0	0	2	2	-	-	-	-	20	10
<b>BSHR0401-P</b>	Commercial Vegetable Production	0	0	1	1	-	-	-	-	20	10
<b>BSHR0402-P</b>	Farm Power and Machinery for Horticulture	0	0	1	1	-	-	-	-	20	10
<b>BSHR0403-P</b>	Agricultural Informatics and Artificial Intelligence	0	0	1	1	-	-	-	-	20	10
<b>BSHR0404-P</b>	Urban and Peri Urban Horticulture	0	0	1	1	-	-	-	-	20	10
<b>BSHR0405-P</b>	Agriculture Marketing and Trade	0	0	1	1	-	-	-	-	20	10
<b>BSHR0406-P</b>	Pest Management of Horticulture crops	0	0	1	1	-	-	-	-	20	10
<b>BSHR0407-P</b>	Introductory Agro-meteorology	0	0	1	1	-	-	-	-	20	10

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	and Climate Change										
<b>Total</b>				22	350	210	720		160		

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## Scheme: B.Sc. (Horticulture) – 5<sup>th</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
<b>BSHR0501</b>	Education Tour	-	-	-	NG	-	-	-	-	-	-
<b>BSHR0502-T</b>	Fundamentals of Plant Breeding	2	0	0	2	50	30	80	40	-	-
<b>BSHR0503-T</b>	Growth and Development of Horticultural crops	2	0	0	2	50	30	80	40	-	-
<b>BSHR0504-T</b>	Soil Fertility and Nutrient Management	2	0	0	2	50	30	80	40	-	-
<b>BSHR0505-T</b>	General Microbiology	2	0	0	2	50	30	80	40	-	-
<b>BSHR0506-T</b>	Information and Communication Technology in Horticulture	1	0	0	1	50	30	80	40	-	-
<b>BSHR0507-T</b>	Introductory Crop Physiology	1	0	0	1	50	30	80	40	-	-
<b>BSHR0508-T</b>	Basic Statistics and Experimental Designs	1	1	0	2	50	30	80	40		
<b>BSHR0502-P</b>	Fundamentals of Plant Breeding-LAB	0	0	1	1	-	-	-	-	20	10
<b>BSHR0503-P</b>	Growth and Development of Horticultural crops LAB	0	0	1	1	-	-	-	-	20	10
<b>BSHR0504-P</b>	Soil Fertility and Nutrient Management LAB	0	0	1	1	-	-	-	-	20	10
<b>BSHR0505-P</b>	General Microbiology LAB	0	0	1	1	-	-	-	-	20	10
<b>BSHR0506-P</b>	Information and Communication Technology in Horticulture LAB	0	0	2	2	-	-	-	-	20	10
<b>BSHR0507-P</b>	Introductory Crop Physiology LAB	0	0	1	1	-	-	-	-	20	10
<b>BSHR0508-P</b>	Basic Statistics and Experimental Designs LAB	0	0	1	1	-	-	-	-	20	10
	<b>Total</b>				20	350	210	560		140	

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## Scheme: B.Sc. (Horticulture) – 6<sup>th</sup> Sem.

Paper Code	Paper Name	L	T	P	C	Theory	Seasonal	Total		Practical	
						Max.	Max.	Max.	Min.	Max.	Min.
BSHR0601-T	Introductory Agro forestry	2	0	0	2	50	30	80	40	-	-
BSHR0603-T	Principles of Biochemistry	2	0	0	2	50	30	80	40	-	-
BSHR0604-T	Dryland Horticulture	2	0	0	2	50	30	80	40	-	-
BSHR0605-T	Economics and Marketing	2	0	0	2	50	30	80	40	-	-
BSHR0606-T	Principles and Practices of Natural Farming	2	0	0	2	50	30	80	40	-	-
BSHR0607-T	Horticulture Based Integrated Farming System	2	0	0	2	50	30	80	40	-	-
BSHR0608-T	Processing and Value Addition of Horticulture crops	2	0	0	2	50	30	80	40	-	-
BSHR0601-P	Introductory Agro forestry	0	0	1	1	-	-	-	-	20	10
BSHR0602-P	Laboratory Techniques for Horticultural crops	0	0	2	2	-	-	-	-	20	10
BSHR0603-P	Principles of Biochemistry	0	0	1	1	-	-	-	-	20	10
BSHR0604-P	Dryland Horticulture	0	0	1	1	-	-	-	-	20	10
BSHR0605-P	Economics and Marketing	0	0	1	1	-	-	-	-	20	10
BSHR0606-P	Principles and Practices of Natural Farming	0	0	1	1	-	-	-	-	20	10
BSHR0607-P	Horticulture Based Integrated Farming System	0	0	1	1	-	-	-	-	20	10
BSHR0608-P	Processing and Value Addition of Horticulture crops	0	0	1	1	-	-	-	-	20	10
	<b>Total</b>				23	350	210	560		160	

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Scheme: B.Sc. (Horticulture) – 7<sup>th</sup> Sem.

Paper Code	Elective course	Credit	Theory	Seasonal	Total	Practical			Total
			Max.	Max.	Max.	Min.	Max.	Min.	
BHEC0701-P	Fruit Science	20					100	50	100
BHEC0701-P	Vegetable Science	20					100	50	100
BHEC0701-P	Floriculture and Landscaping	20					100	50	100

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Scheme: B.Sc. (Horticulture) – 8<sup>th</sup> Sem.

Paper Code	RAWE	Credit	Theory	Mid Sem	Total		Practical		Total
			Max.	Max.	Max	Min.	Max.	Min.	
<b>BHRW0801-P</b>	Student Ready (RAWE/ Industrial Attachment/ Project work/ Internship)	<b>20 Credits</b>	-	-	-	-	100	50	100

# Non gradial courses- Deeksharambh (0+2); Edu Tour (0+2)

\* From the basket of Skill Enhancement Course (SEC) modules

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