

School of Agriculture

CRITERIA 1

SUB CRITEIA 1.3.4

Details of Students undertaking Projects/Internship

Academic Year 2019-2020

Omveer Singh REGISTRAR **ITM** University Gwalior (M.P.)



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School Of Agriculture Total Number of Projects in UG and PG

Sr. No.	Programme	Course Code	Total Number of students Involved in projects
1	B.Sc. (Hons.) Agriculture	AGRON(E)-421 AGRON(E)-422 GPB(E)-421 SS(E)-421	162
2	M.Sc. Agriculture (Agronomy)	AGRON-560	11

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Experiential Learning Programme (ELP)

Experiential Learning (EL) with business mode helps the student to develop competence, capability, capacity building, acquiring skills, expertise, and confidence to start their own enterprise and turn job creators instead of job seekers. This is a step forward for "Earn while Learn" concept. Experiential Learning is an important module for high quality professional competence and practical work experience in real life situation to Graduates. The module with entrepreneurial orientation of production and production to consumption pattern is expected to facilitate producing Job Providers rather than Job Seekers. The EL provides the students an excellent opportunity to develop analytical and entrepreneurial skills, and knowledge through meaningful hands-on experience, confidence in their ability to design and execute project work. The main objectives of EL are:

- To promote professional skills and knowledge through meaningful hands-on experience.
- To build confidence and to work in project mode.
- To acquire enterprise management capabilities.

This program will be undertaken by the students preferably during the eighth semester for a with a weightage of 0+20 credit hours..

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STUDY AND EVALUATION SCHEME (SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme:BSc_HonsAgriculture(BSc_HonsAgriculture) Semester:8th

Batch: 2016-2020

Sub Code	Sub Name	L/T/P	Int. Ass. Marks	Ext. Marks	Total Marks	Credit	Credit 2
AGRON(E)-421[T]	Crop Production(Integrated Farming System)		<mark>0</mark>	<mark>100</mark>	<mark>100</mark>		<mark>5</mark>
AGRON(E)-422[T]	Crop Production: Water Management(Watershed, Micro-irrigation,Utilization of Problematic Water)		<mark>0</mark>	<mark>100</mark>	<mark>100</mark>	I	<mark>5</mark>
GPB(E)-421[T]	Genetics and Plant Breeding		<mark>0</mark>	<mark>100</mark>	<mark>100</mark>		<mark>5</mark>
<mark>SS(E)-421[T]</mark>	Bio-Fertilizer		<mark>0</mark>	<mark>100</mark>	<mark>100</mark>		<mark>5</mark>

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List of Experiential Learning Programme

S. No.	Courses Title	Courses Code
1	Crop Production (Integrated Farming System)	AGRON (E)- 421
2	Crop Production: Water Management (Watershed,	AGRON (E)-422
	Micro-Irrigation, Utilization of Problematic Water)	
3	Genetics and Plant Breeding	GPB (E)-421
4	Bio- Fertilizer	SS (E) 421

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Course Code: ELP-AGRON-421	Course Name: Crop Production (Integrated	Semester: VIII
	Farming System)	

Credits	L	Т	Р	Mark	s Contact Hours (per week)	Independent Study Hour (per week)	Section (Group)
10	0	0	10		20		B.Sc. (Hons) Agri
	Curric	ulum l	evel		Applied and Innovative skills based	Student-specific course outcome	Research Placement Entrepreneurship

Objective: To enable students to design, implement, and evaluate sustainable integrated farming systems for optimizing resources and meeting socio-economic and environmental goals.

CO-1	Develop knowledge of Integrated Farming Systems (IFS) principles and components.
CO-2	Apply scientific approaches for sustainable crop and resource management.
CO-3	Design and implement region-specific, viable integrated farming models.
CO-4	Analyze economic returns and risk mitigation strategies in IFS.
CO-5	Promote eco-friendly and sustainable agricultural practices.

Course outcomes: Through this course, students will be able to:

Modules detail:

Module No.	Module Title	Assessment tools
Module-01	Introduction to Integrated Farming Systems (IFS)	• Students' progress
Module-02	Design and Planning of IFS Models	will be assessed
Module-03	Crop Diversification and Management	comprehensively through the
Module-04	Livestock Integration in IFS	continuous
Module-05	Organic Waste Recycling and Composting	evaluation process.
Module-06	Agroforestry and Horticultural Integration	Modules/Practical's
Module-07	Renewable Energy in IFS	outcomes-based
Module-08	Economic Evaluation of Integrated Farming Systems	evaluation
Module-09	Risk Management in IFS	• Attendance
Module-10	Eco-friendly and Sustainable Practices	• Presentation and report submission
Suggested	1. "Integrated Farming Systems: Practices and Economics" by M. P. S	Singh, R. K. Singh, and
reading:	R. C. Singh	1.56

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	2. "Farming Systems and Sustainable Agriculture" by S. S. Walia, D. S. Chahal, and P. Kaur
	3. "Agriculture for Sustainable Development: Principles and Practices" by Gurbir S. Bhullar
	and Navreet K. Bhullar
	4. "Principles of Agronomy for Sustainable Agriculture" by S. R. Reddy
	5. "Sustainable Agriculture and Integrated Farming Systems" by H. S. Gupta and R. Prasad
Suggested e-	1. <u>https://www.ifad.org/documents/d/new-ifad.org/ifs_manual-pdf</u>
resources	2. <u>https://www.agrifarming.in/integrated-farming-system-types-advantages-example-and-pdf</u>
(Websites/e-	3. <u>https://stm.bookpi.org/ATIFSSA/index</u>
books)	4. <u>https://link.springer.com/chapter/10.1007/978-981-10-6934-5_6</u>





Course Code: ELP-AGRON-422	Course Name: Crop Production: Water	Semester: VIII
	Management(Watershed, Micro-irrigation,	
	Utilization of Problematic Water)	

Credits	L	Т	Р	М	arks	Contact Hours (per week)	Independent Study Hour (per week)	Section (Group)
10	0	0	10			20		B.Sc. (Hons) Agri
Curriculum level		Applied and Innovative skills based	Student-specific course outcome	Research Placement Entrepreneurship				

Objective: To equip students with knowledge and skills in watershed management, micro-irrigation, and utilization of problematic water for sustainable crop production and resource optimization.

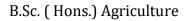
Course outcomes: Through this course, students will be able to:

CO-1	Students will understand the watershed management principles for efficient water conservation and utilization in agriculture.
CO-2	They will apply micro-irrigation techniques, such as drip and sprinkler systems, to improve water- use efficiency
CO-3	Develop strategies to manage and utilize problematic water sources, including saline, alkaline, and
005	wastewater.
CO-4	They will assess the impact of water management practices on crop productivity, soil health, and
0-4	sustainability.
CO-5	Through hands-on learning, Students will design and implement effective water
0-5	management plans for different agro-ecological conditions.

Modules detail:

Module No.	Module Title	Assessment tools
Module-01	Introduction to Water Management in Agriculture	• Students' progress
Module-02	Watershed Management Principles	will be assessed
Module-03	Water Resource Assessment and Planning	- comprehensively through the
Module-04	Micro-irrigation Systems: Drip and Sprinkler	continuous
Module-05	Water Use Efficiency and Crop Water Requirements	evaluation process.
Module-06	Soil-Water-Plant Relationships	Modules/Practical's
Module-07	Water Management in Different Agro-Ecological Zones	outcomes-based
Module-08	Integrated Water Resource Management (IWRM)	evaluation
Module-09	Impact of Irrigation on Soil Health and Sustainability	• Attendance
Module-10	Field Applications and Hands-on Training	• Presentation and report submission
	REGISTRAR	

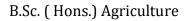
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	1. "Micro-Irrigation for Crop Production: Design, Operation, and Management" by Megh R.
	Goyal
	2. "Principles of Micro-Irrigation Engineering" by Megh R. Goyal
Suggested	3. "Management of Problematic Soils and Water for Sustainable Agriculture" by A. K. Singh and
reading:	S. K. Mishra
	4. "Integrated Watershed Management in Rainfed Agriculture" by Suhas P. Wani, Johan
	Rockstrom, and Kanwar Lal Sahrawat
	5. "Irrigation and Water Resources Engineering" by G.L. Asaw
Suggested e-	1. <u>https://link.springer.com/journal/11269</u>
resources	2. <u>https://agrimoon.com/</u>
(Websites/e-	3. <u>https://www.waterworld.com/</u>
books)	4. <u>https://www.agriculturetoday.in/</u>







Course	Course Code: GPB (E)-421			Course Name: Genetics	Semester: VIII

Credits	L	T	Р	Mark	Contact Hours (per week)	Independent Study Hour (per week)	Section (Group)
10	0	0	10		20		B.Sc. (H) Agriculture
Curriculum level					Applied and Innovative skills based	Student specific course outcome	Entrepreneurship Research Placement

Objective: To provide hands-on training on seed production and selection methods for hybrid and varietal development.

Course outcomes:	Through this course, students will be able to:

CO-1	Describe the importance seed production.						
CO-2	Explain the selection models.						
CO-3	Demonstrate development of hybrids and varieties.						
CO-4	Analyse the efficiency of various selection schemes in self and cross pollinated crops.						
CO-5	Evaluate the the efficaty of the produce developed through various selection methods in SPC and CPC.						

Modules detail:

Module No.	Module Title	Assessment tools	
Module-01	Floral structure and biology of Self Pollinated Crops	• Students' progress	
Module-02	Floral structure and biology of Cross Pollinated Crops	will be assessed	
Module-03	Emasculation and artificial pollination in cereal crops	comprehensively through continuous	
Module-04	Emasculation and artificial pollination in pulses and oilseeds	evaluation process.	
Module-05	Study of Pureline selection method		
Module-06	Study of Mass selection method	Modules/Practicals outcomes based	
Module-07	Study of Bulk Selection Method	evaluation	
Module-08	Study of Pedegree selection method	• Attendance	
Module-09	Study of heterosis, inbreeding depression in single cross hybrids	Attendance	
Module-10	Study of Experimental design	Presentation and report submission	
Suggested	1. Allard, R. W. (1999). Principles of Plant Breeding. Joh	n Wiley & Sons.	
reading:	2. Hartl, D. L., & Clark, A. G. (2007). Principles of Population	n Genetics. Sinauer	
_	Associates.	21	

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	3. Falconer, D. S., & Mackay, T. F. C. (1996). Introduction to Quantitative Genetics. Longman.						
	4. Kearsey, M. J., & Pooni, H. S. (1996). The Genotype-Phenotype Relationship. In The Genetics of Quantitative Traits. Chapman & Hall.						
Suggested e- resources (Websites/e- books)	1. https://agritech.tnau.ac.in/pdf/HORTICULTURE.pdf 2. https://www.slideshare.net/amritpalsingh477/commercial-horticulture 3. https://www.horticultureguruji.in/topic-1-definition-importance-scope-and-problems-in-vegetable- production-2/ 4. https://www.horticultureguruji.in/lectur-introduction-importance-area-and-production-of-spices- %E0%A4%AE%E0%A4%B8%E0%A4%BE%E0%A4%B2%E0%A5%8B%E0%A4%82- %E0%A4%95%E0%A4%BE-%E0%A4%AA%E0%A4%B0%E0%A4%BF%E0%A4%9A%E0%A4%AF- %E0%A4%95%E0%A4%BE-%E0%A4%AA%E0%A4%B0%E0%A4%BF%E0%A4%9A%E0%A4%AF- %E0%A4%A5_2/ 5. https://courseware.cutm.ac.in/courses/3244/						

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Course Code: SS (E)-421	Course Name: Bio-fertilizer	Semester: VIII

Credits	L	Т	Р	Mark	s Contact Hours (per week)	Independent Study Hour (per week)	Section (Group)
10	0	0	10		20		B.Sc. (H) Agriculture
Curriculum level					Applied and Innovative skills based	Student specific course outcome	Entrepreneurship Research Placement

Objective: To provide hands on training on the production of bio fertilizer

en-fixing bacteria,
oles in soil health and
eatment, and foliar
nd soil types.
icrobial diversity, and
sustainable agriculture.
s, including reduced
able to articulate the
luding data collection
rtilizer research and

Course outcomes: Through this course students will be able to:

Modules detail:

Module No.	Module Title	Assessment tools
Module-01	Introduction to Bio-fertilizers	Students' progress
Module-02	Microbial Inoculants	will be assessed
Module-03	Production of Bio-fertilizers	comprehensively through continuous
Module-04	Carrier Materials and Formulations	evaluation process.
Module-05	Quality Control of Bio-fertilizers	Modules/Practicals
Module-06	Application Techniques	outcomes based
Module-07	Impact on Soil Health	evaluation
Module-08	Bio-fertilizers and Sustainable Agriculture	Attendance
Module-09	Field Trials and Demonstrations	

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Module-10	Economic Analysis	• Presentation and report submission		
	1. "Biofertilizers in Agriculture and Forestry" by N.S.	Subba Rao		
	2. "Plant Growth-Promoting Rhizobacteria for Sustainable Agrice	ulture" by R. Zandi and		
	H. M. Alikhani			
Suggested	3. "Biofertilizers and Organic Farming" by Dr. S. Kannaiyan			
reading:	4. "Microbial Biotechnology in Agriculture and Aquaculture" by R.C. Ray and C.R.			
	Ramachandran			
	5. "Rhizosphere Microbes and Plant Health" by Naveen	Kumar Arora		
Suggested e-	1. <u>https://agrimoon.com/</u>			
resources	2. https://www.researchgate.net/publication/385930280_Cassia_auriculat	<u>a-</u>		
(Websites/e-	Based_Silver_Nanoparticles A_Novel_Approach_to_Combat_Bacterial_Infe	<u>ctions</u>		
books)	3. https://www.sciencedirect.com/science/article/pii/S20901232	<u>221001491</u>		

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STUDY AND EVALUATION SCHEME

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme: MSc_Agriculture (Agronomy) Semester: 4th

Sub Code	Sub Name	L/T/P	Int. Ass. Marks	Ext. Marks	Total Marks	Credit	Credit 2
AGRON-518[T]	Principles and Practices of Water Management		60	40	100		3
AGRON-511[T]	Cropping Systems		60	40	100		2
AGRON-560[T]	Research		<mark>0</mark>		0		<mark>16</mark>

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Batch: 2018-2020

"CELEBRATING DREAMS"







Details of UG Projects/Internship

Name of the School: School of Agriculture, ITM University, Gwalior. Name of the Course and Branch: B.Sc. (Hons.) Agriculture (Batch 2016-2020) Session: 2019-2020 Total No. of Students enrolled: 162

S.No.	Roll No	Student Name	ELP COURSES
1.	BAGN1AG16001	Aashannagari Yogeshwar Reddy	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
2.	BAGN1AG16003	Abhishek Kumar Ingle	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
3.	BAGN1AG16004	Abhishek Pandey	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
4.	BAGN1AG16005	Abhishek Pathak	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
5.	BAGN1AG16006	Abhishek Vaskel	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
6.	BAGN1AG16008	Abhishek	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
7.	BAGN1AG16009	Abid Ali	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
8.	BAGN1AG16010	Admankar Vighnesh Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
9.	BAGN1AG16011	Ajeet Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
10.	BAGN1AG16012	Aka Molon Serge Stephane	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
11.	BAGN1AG16013	Akash Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
12.	BAGN1AG16014	Aman Tiwari	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
13.	BAGN1AG16015	Amarjeet Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
14.	BAGN1AG16022	Ananta Waghela	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
15.	BAGN1AG16023	AniveshChouriya	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
16.	BAGN1AG16025	Ankit Likhar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
17.	BAGN1AG16029	ArchikaAwasare	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
18.	BAGN1AG16030	Ashish Choudhary	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
19.	BAGN1AG16031	Ashutosh Choure	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
20.	BAGN1AG16033	Aviral Bisen	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
21.	BAGN1AG16034	Ayush Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 441

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BAGN1AG16035	Bandi Priyanka	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16037	Bharti Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16038	BhavdeshDhakad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16039	BhukyaPravalika	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16041	Burri Anu Roop	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16042	Chandrabhan Dhakad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16044	Deependra Singh Gurjar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16045	Deepu Kumar Jha	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16046	Devendra Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16047	Devendra Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16048	Dhruv Pratap Singh Dangi	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16049	Dhwani Hanwat	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16050	Dipesh Pandey	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16051	Dupesh Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16052	EmaSawarkar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 456
BAGN1AG16053	Eshwar Reddy Madduri	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16055	Gaurav Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16056	Girish Bambal	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16057	Gumperla Charan Teja	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16058	GundaHaribabu	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16059	HamendraSikarwar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16061	Harsh Mandlekar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16062	Harsh Mishra	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16063	HatkarKapildev	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16064	Himanshu Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16065	Indrajeet Singh Tomar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16067	Jayant Choudhary	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
	BAGN1AG16037 BAGN1AG16038 BAGN1AG16039 BAGN1AG16041 BAGN1AG16042 BAGN1AG16044 BAGN1AG16045 BAGN1AG16047 BAGN1AG16047 BAGN1AG16049 BAGN1AG16050 BAGN1AG16051 BAGN1AG16053 BAGN1AG16055 BAGN1AG16055 BAGN1AG16057 BAGN1AG16058 BAGN1AG16058 BAGN1AG16059 BAGN1AG16064 BAGN1AG16063 BAGN1AG16064	BAGN1AG16037Bharti SinghBAGN1AG16038BhavdeshDhakadBAGN1AG16039BhukyaPravalikaBAGN1AG16041Burri Anu RoopBAGN1AG16042Chandrabhan DhakadBAGN1AG16044Deependra Singh GurjarBAGN1AG16045Deepu Kumar JhaBAGN1AG16046Devendra SharmaBAGN1AG16047Devendra SinghBAGN1AG16048Dhruv Pratap Singh DangiBAGN1AG16049Dhwani HanwatBAGN1AG16050Dipesh PandeyBAGN1AG16051Dupesh KumarBAGN1AG16052EmaSawarkarBAGN1AG16053Eshwar Reddy MadduriBAGN1AG16054Gurnav KumarBAGN1AG16055Gaurav KumarBAGN1AG16056Girish BambalBAGN1AG16057Gumperla Charan TejaBAGN1AG16058GundaHaribabuBAGN1AG16064Harsh MandlekarBAGN1AG16065Harsh MishraBAGN1AG16064Himanshu KumarBAGN1AG16065Indrajeet Singh Tomar



			AGRON (E)421 ,AGRON-(E) 422, GPB
49.	BAGN1AG16068	Jinaka Sriharsha	(É)-421, SS (E) 421
50.	BAGN1AG16069	KadariNikhitha	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
51.	BAGN1AG16070	Kamalkant Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
52.	BAGN1AG16071	Kanhaiya Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
53.	BAGN1AG16072	Kankanala Sai Kiran	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
54.	BAGN1AG16073	Kapil Rathore	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
55.	BAGN1AG16074	KhomeshKurveti	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
56.	BAGN1AG16077	Krishna Kumar Yadav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
57.	BAGN1AG16079	Kumari Asmita	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
58.	BAGN1AG16080	Limmala Keerthi Kiran	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
59.	BAGN1AG16081	Lokendra Singh Sikarwar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
60.	BAGN1AG16082	MachaniNarahari	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
61.	BAGN1AG16084	Manjeet Singh Jat	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
62.	BAGN1AG16085	Mayank Kushwah	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
63.	BAGN1AG16086	Mayank Parihar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
64.	BAGN1AG16087	Mayur Khan	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
65.	BAGN1AG16088	Md Afrid	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
66.	BAGN1AG16090	Mithun Dhakad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
67.	BAGN1AG16091	Mohit Rathor	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
68.	BAGN1AG16092	Moubani Sarkar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
69.	BAGN1AG16093	Mudari Mounika	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
70.	BAGN1AG16094	Murari Sai Dileep	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
71.	BAGN1AG16095	Naval Kishor	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
72.	BAGN1AG16096	Niharika Gurudev	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
73.	BAGN1AG16097	Nikhil Raj	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
74.	BAGN1AG16098	Nilesh Kumar Vyas	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
75.	BAGN1AG16099	Nisha Dubey	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421



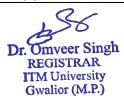
76.	BAGN1AG16100	Nisha Nigam	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
77.	BAGN1AG16101	Nisha Niranjan	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
78.	BAGN1AG16103	Nitesh Choudhary	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
79.	BAGN1AG16104	OrugantiAkhila	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
80.	BAGN1AG16105	Panjala Vamshi	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
81.	BAGN1AG16106	Parlapalli Charan Reddy	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
82.	BAGN1AG16107	Pathan Ashik Khan	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
83.	BAGN1AG16108	Pawan Patel	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
84.	BAGN1AG16109	Pawan Patidar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
85.	BAGN1AG16112	PonduriJayachandra	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
86.	BAGN1AG16113	Prabhjot Singh Gill	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
87.	BAGN1AG16114	Prashant Lakhan	AGRON (E)421, AGRON-(E) 422, GPB (E)-421, SS (E) 421
88.	BAGN1AG16115	Prashant Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
89.	BAGN1AG16116	Prashant Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
90.	BAGN1AG16117	Pratik Deshmukh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
91.	BAGN1AG16118	Praveen Dhakad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
92.	BAGN1AG16120	Pritu Singh Bhadoria	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
93.	BAGN1AG16121	PriyanshShrivastav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
94.	BAGN1AG16122	PuttojuRamachary	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
95.	BAGN1AG16123	Raghvendra Singh Gurjar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
96.	BAGN1AG16124	Rahul Rathore	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
97.	BAGN1AG16125	Rahul Yadav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
98.	BAGN1AG16126	Rajat Gurjar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
99.	BAGN1AG16128	Rajkumar Chouhan	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
100.	BAGN1AG16129	Raksha Katare	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
101.	BAGN1AG16130	Ram Dhakad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
102.	BAGN1AG16131	Ram Varan Rajput	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421

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103.	BAGN1AG16132	Ramkumar Mandloi	(É)-421, SS (E) 421
104.	BAGN1AG16133	Ramveer Yadav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
105.	BAGN1AG16134	RamireddyNagaraju	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
106.	BAGN1AG16136	Ravi Shankar Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
107.	BAGN1AG16137	RavikantaDhok	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
108.	BAGN1AG16138	Ravindra Yadav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
109.	BAGN1AG16139	Y Renuka	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
110.	BAGN1AG16140	Rishiraj Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
111.	BAGN1AG16142	Ruchita Arya	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
112.	BAGN1AG16143	Rudra Pratap	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
113.	BAGN1AG16144	Sachin Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
114.	BAGN1AG16146	Sagar S Rajput	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
115.	BAGN1AG16147	SiripurapuSasi Hemanth	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
116.	BAGN1AG16149	Sanatan Kumar Swain	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
117.	BAGN1AG16150	Sandeep Gupta	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
118.	BAGN1AG16152	Sankalp Jha	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
119.	BAGN1AG16153	SanketHunkar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
120.	BAGN1AG16154	Saurabh Upadhyay	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
121.	BAGN1AG16155	Shaik Mujahid	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
122.	BAGN1AG16156	Shivam Kumawat	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
123.	BAGN1AG16157	Shivam Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
124.	BAGN1AG16158	Shubham Dangi	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
125.	BAGN1AG16159	Shubham Mithas	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
126.	BAGN1AG16161	Shubham Singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
127.	BAGN1AG16164	Sonu Kumar singh	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
128.	BAGN1AG16165	Soumik Samanta	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
129.	BAGN1AG16166	Sourabh Meena	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421



BAGN1AG16167	Sugreev Inwati	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16168	Sumit Kushwah	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16169	Sumontika Chakraborty	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16170	Shushil Ranjan	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16171	Sushil Kumar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16172	ThirumalasettiMounish Naidu	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16173	Talari Ravali	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
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BAGN1AG16175	Utsav Shastri	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
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BAGN1AG16177	Vikash Pataiya	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16179	Vinay Kothre	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16180	Vineet Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16181	Vipin Singh Kaurav	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16182	Vishal Patil	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16183	Vishal Sharma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16184	Vivek Singh Tomar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16185	Yenugula Rachana	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16186	ZureniOdyuo	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16187	KonduriSahithi Sowmya	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16188	Sonali Sahu	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16189	Aman Shrivastava	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16190	AnduboriBramhanandam Reddy	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16191	Omprakash Patidar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16192	PathapalamVaraprasad	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16193	Surendra Kumar Nunna	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
BAGN1AG16194	Vikas Singh Jadon	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
	BAGN1AG16168 BAGN1AG16170 BAGN1AG16170 BAGN1AG16171 BAGN1AG16172 BAGN1AG16173 BAGN1AG16174 BAGN1AG16176 BAGN1AG16177 BAGN1AG16180 BAGN1AG16181 BAGN1AG16183 BAGN1AG16183 BAGN1AG16184 BAGN1AG16184 BAGN1AG16184 BAGN1AG16185 BAGN1AG16187 BAGN1AG16188 BAGN1AG16189 BAGN1AG16189 BAGN1AG16190 BAGN1AG16191	BAGN1AG16168Sumit KushwahBAGN1AG16169Sumontika ChakrabortyBAGN1AG16170Shushil RanjanBAGN1AG16171Sushil KumarBAGN1AG16172ThirumalasettiMounish NaiduBAGN1AG16173Talari RavaliBAGN1AG16174Tushar MukatiBAGN1AG16175Utsav ShastriBAGN1AG16176VeerendraBAGN1AG16177Vikash PataiyaBAGN1AG16179Vinay KothreBAGN1AG16180Vineet SharmaBAGN1AG16181Vipin Singh KauravBAGN1AG16182Vishal PatailBAGN1AG16183Vishal SharmaBAGN1AG16184Vivek Singh TomarBAGN1AG16185Yenugula RachanaBAGN1AG16186ZureniOdyuoBAGN1AG16187KonduriSahithi SowmyaBAGN1AG16188Sonali SahuBAGN1AG16189Aman ShrivastavaBAGN1AG16189Aman ShrivastavaBAGN1AG16190AnduboriBramhanandam ReddyBAGN1AG16191Omprakash Patidar



157.	BAGN1AG16195	Vishal Rajesh Dalke	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
158.	BAGN1AG16197	Shekhar Suman	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
159.	BAGN1AG16201	NishithaPrudhvi	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
160.	BAGN1AG16203	Kondaveeti Navya	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
161.	BAGN1AG16205	Gummadi Anand Basaveswar	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421
162.	BAGN1AG16206	Shaik Karishma	AGRON (E)421 ,AGRON-(E) 422, GPB (E)-421, SS (E) 421

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Sample Project Report of ELP programme



Report

of

Experiential Learning Program

on

AGRON(E)-421 Crop Production (Integrated Farming System)

AGRON(E)-422 Crop Production; Water Management

GPB(E)-421 Genetics and Plant Breeding

SS(E)-421 Bio-Fertilizer

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Report

of

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AGRON(E)-421 Crop Production (Integrated Farming System)

AGRON(E)-422 Crop Production; Water Management

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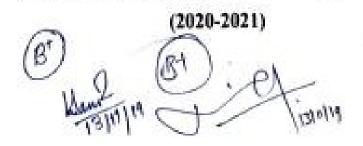
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Report

of

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on

AGRON(E)-421 Crop Production (Integrated Farming System)

AGRON(E)-422 Crop Production; Water Management

GPB(E)-421 Genetics and Plant Breeding

SS(E)-421 Bio-Fertilizer

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8.	MAGN1AG18011	Geetanjali Sharma
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Dr. Omveer Singh REGISTRAR ITM University Gwalior (M.P.)

onun

Head of Department Agronomy

Sample Project report of M.Sc. (Agriculture) Agronomy

"EFFECT OF ORGANIC AND INORGANIC FERTILIZER ON THE GROWTH AND YIELD OF GREEN GRAM (Vigna radiata L.)"



UNIVERSITY GWALIOR • MP • INDIA "CELEBRATING DREAMS"

THESIS

SUBMITTED FOR THE PARTIAL FULFILMENT FOR THE AWARD OF THE DEGREE OF

> MASTER OF SCIENCE (AGRICULTURE) IN AGRONOMY

> > SUBMITTED BY SANDHYA SOMALRAJU (ROLL.NO.MAGN1AG18005)

UNDER THE GUIDANCE OF DR. GIRISH GOYAL

DEPARTMENT OF AGRONOMY SCHOOL OF AGRICULTURE, ITM UNIVERSITY, GWALIOR-474001 (M. P.) INDIA

2021

Omveer Singh REGISTRAR **ITM** University Gwalior (M.P.)

SCHOOL OF AGRICULTURE ITM UNIVERSITY, GWALIOR, MADHYA PRADESH



CERTIFICATE OF EVALUATION COMMITTEE

This is to certify that the work entitled "Effect of Organic and Inorganic Fertilizers on the Growth and Yield of Green Gram (*Vigna radiata L.*)" has been declared and submitted by Ms. Sandhya Somalraju, Roll. No. MAGN1AG18005 in partial fulfilment of the requirement for the award of Degree of Master of Science in Agronomy, Department of Agronomy, School of Agriculture ITM University Gwalior, Madhya Pradesh. The thesis has been examined by the Evaluation Committee and found acceptable.

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2. Prof. (Dr). S. S. Tomar Dean SoAg Member from Major	Satisfactory/Not satisfactory	Stomen
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4. Dr. Nikita Nehal Assistant Professor School of Agriculture Dean Nominee	Satisfactory/Not satisfactory	Alingh
Place: Gwalior		Dean
Date: 15/12/2021	Dr. Omveer Singh	of Agriculture DEAN

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27

AGRONOMICAL PERFORMANCE OF *KHARIF* MAIZE (*Zea mays* L.) UNDER THE EFFECT OF ORGANIC AND INORGANIC FERTILIZERS

Thesis



Submitted in partial fullfilment of the requirements for the award of the degree

of

MASTER OF SCIENCE (AGRICULTURE)

in

AGRONOMY

Submitted by

AKANKSHA SHARMA (MAGN1AG18009) Under The Guidance of

Dr. Lus mi Kant Tripathi Assistant Professor

DEPARTMENT OF AGRONOMY SCHOOL OF AGRICULTURE ITM UNIVERSITY GWALIOR-474001 MADHYA PRADESH

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Omveer Singh Dr REGISTRAR **ITM** University Gwalior (M.P.)



CERTIFICATE OF EVALUATION COMMITTEE

This is to certify that the thesis "Agronomical performance of Kharif Maize (Zea mays L.) under the effect of Organic and Inorganic Fertilizers" has been prepared and submitted by Ms.Akanksha Sharma (ID No. MAGN1AG18009) for the partial fulfillment of the requirement the award of degree of Master of Science in Agriculture (Agronomy) in the School of Agriculture, ITM University Gwalior, Madhya Pradesh. The thesis has been examined by the Evaluation Committee and found acceptable.

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