SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR
Teachers Self Appraisal for Session 20.....-20....

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Name of College Sheei Ra	m College	Department	BADesign	ation	tani 10	iote22 be	
Name of College.				201	10610		
1-Name Mishi Thakur	2-Date of	Birth. 67 . 04	99.8. 3-Date o	fjoining.	25/17	·L	
I-Name	aching		Industry		0-110		
4- Previous Experience (in years). 10	HR 6-Aadh	or No.261773L	14 C 42 77-P	AN NOBALK	PT 42	122 N	
4- Previous Experience (in years): Te 5-Specialization	A L	ow Mand	i NZ	<u> </u>			9
8-Address 24/F. Kalyo	Whatsapp No. 766	F-N	Tail Alesha	Hakuz	1998	kig mail	·los
Moh No	Whatsapp No	0770772	700.070				
9-Teaching performance. 72.2			<del></del>	No. of Student	s		
Papers Taught in session	No. of I	Periods	Total C	lear Passed		Pass %	
Odd/Even sem.	f	1000	Stdnts		Passed	1 433 70	
Note:- Exam Result : Odd Sem	Allotted Per week	Taken in Odd/Even Sem.	Appu	Percentage	With B/CO	CI D	
(this year), Even Sem (last year),	1 7 7 7 7 1 1 1		in Exam ≥	≥50/ ≥40 /	Paper	Cle B/ ar COP	
Annual (latest) be given	LTP	L T P	Exam ≥ 60	<60 <50			1
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Total Nos.		en e			bsence		
10-Regularity and Punctuality: L	eave availed		ate Arrivals				
10-Regularity and			. Lad to gtu	dents (Attach the	Detail) -		
11-Details of Course teaching plan	n synopses of lectu	rers and reading lis	its supplied to sta	dones (1 2			
		Od	d Sem	Even Som and	int./Coll.	Ext./Univ.	
12-Details of participation in the f University/ College wor	onowing.		Int./Coll. E	xt/Univ.	IIII./Con.		
(i) Ans. Script Evaluation	on .				V		
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of Llon	ne accidillipillo m o	ession duties			V		
(iii) Assessment of Hon (iv) Conduct of Exams, (v) Evaluation of Disse	restion/Projects	Gunos			·		
			(hariaf averleaf)				
13- Details of Innovations/Contr (i) Design of curriculum	bution in Teaching	during the year : (ii) Teacl	ing methods		,,,,,,,,		= -
(i) Design of curriculuit	1	C. A. Treals	nation methods				•
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(v) Preparation of resouting (vi) Remedial Teaching	/Student Counselin	g (academic)					
(vii) Any other					<i>I</i>		
(411) 1111)		· · · · · · · · · · · · · · · · · · ·			` .	E-	
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14- Use of IC	T (Information of ent of Profession	z Competer	ce: indicate	no. in below	table respect	Ph.D.	NPTEL	Assignments	Exam certificates
15-Improvem	GUL OF LIGHTSPIC	Workshops		Symposia	M.Phii.	111.10.	Courses		Certificatos
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16 Research	n Contributions	in session:	1 (A / Dbil /Ph	D)			diming the	vear	
(i)	Number of stud	CITIS TO BIDIO	$\bigcap$ During the	e vear		Completed	during mo	J	
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			a liat\Publi	ished		Accepted			
(i	i)No. of research i) Research Proj (c) Funding A	h papers(encl	ose list)i don			(b) Durat	/A dinor		
(ii	i) Research Proj	ects: (a) Title				(d) Major	Attach the	letail)	
	(c) Funding A	gency		c (Nos ) Sym	posia (Nos.)	organized (	Attach mo		The second
Giv	i) Research Proj (c) Funding A v) Details of Co	nferences (No	S.), Semmar	intion			CALLOOD the	detail)	
. (1)	D'Patents taken,	if any, attach	a brief desci	ng \ Editorsh	ip of Journal	Is (Nos.) etc.	(Attach mo	dora,	
. (4	v) Details of Co. ) Patents taken, vi) Membership	of Profession	al Bodies (14	(3.), [[0.1001					
(V	sion Work/Com	munity Service	e C	" contribution	i to:		i and de	mocracy, socia	lism, humanism
		munity Service	count or you	on values of	National Int	tegration, sec	marism, uc	JE J	ilism, humanism
(i		Community	work such	as values or	oht relief, sn	nall family no	rms etc (13	33.)	
4	(49)	peace, scien	tific temper,	TIOOU OF LICE	08.)			k and Nationa	1 Service Schem
, ,	(b)	National LII	eracy iviliance	ento mi L	nizations lin	iked with Ex	ension wo	K dild 1	
	Position	ns held/Leade or NCC or ar	rship role p	layed in orga	rief our leaf	)			
	(ii) Position	or NCC or ar	y other simil	lar activity.	of your con	tribution to:			
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	(ii) Conege, Chris (iii) Co-curricula (iii) Enrichmen	ar activities		20000	cultural acti	vities)		H 17 1	
	(11) Co-cuirpoint	of campus li	fe (hostels, s	ports, games,	Cururus			,	
	(iii) Enrichmen (iv) Students W (v) Membershi	elfare and Dis	scipline		n Education	and National	Developme	ent	
	(IV) Students W	n/Participatio	n in Bodies/C	Committees o	II Littleman				
	(v) Membershi Tessional Organi	rations of Tea	achers	1		ught			
19- Prof	(v) Membersin lessional Organi essment:- Steps leral Data:- State	taken for the	evaluation of	the course p	indicating (2	ttach the deta	il)	β	
20- Asso	essment:- Steps	brief assessi	nent of your	performance	mulcaing (	suggestions	for improve	ement	
21- Gen	eral Dala Dian	J 04-4-	ii) difficultie	s faced	(III)	, 5-66			
	(i) Achieveme	IIIS							
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3.1=4.5	Supporting bri	efs may be re	ported as alla	TOTAL TITLE					
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Observations & Scores by HoD
(In case of HoD/s, scoring has to be made by the Head of Institution

	(In case of HoD/s, scoring has to	
T	Factual Data	Remarks
1 ,	Teaching Performance	Satisfactory sucheal in college bu
	Regularity and Punctuality	Come but less parties ounetus incle
	Details of Course teaching plan, synopses of lectures	Cilina course plans and straves study
3	and reading lists supplied to students	. 10 - 11000
		Participated in all college works assigned
4	Details of participation	
5	Details of Innovations/ Contribution in Teaching	MIL
6	Use of ICT	Yos
7	Improvement of Professional Competence	one seminar attended
8	Research Contributions in session	NJL
9	Extension Work Community Service	NEL
	Professional Organisations	NIL Lace comments
10	Assessment	Through class Tests and assignments
11		HIL
	General Data	
12 Gener		ated faculty member, introvert but stop of togetherness.
		ated faculty member, introvert but son of togetherness.  Signature
		ated faculty member, introvert but strated faculty members, introvert but strated faculty faculty members, introvert but strated faculty faculty faculty fac
Gener	al Remarks of HoD  Sincere and dadic	ated faculty member, introvert but strated faculty member faculty
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Gener	al Remarks of HoD  Sincere and dadic	
Gener	al Remarks of HoD  Sincere and dadic	
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Gener	al Remarks of HoD  Sincere and dadic	
Gener	al Remarks of HoD  Sincere and dadic	
Gene	eral Remarks of FIOD  Sincere and dadic  work with a sense of  Eral Remarks of Director Des n  Need Impro  Not Punch  Catisfacian	
Gene	al Remarks of HoD  Sincere and dadic	
Gene	eral Remarks of FIOD  Sincere and dadic  work with a sense of  Eral Remarks of Director Des n  Need Impro  Not Punch  Catisfacian	performence James 18/2 Signature
Gene	eral Remarks of FIOD  Sincere and dadic  work with a sense of  Eral Remarks of Director Des n  Need Impro  Not Punch  Catisfacian	
Gene	eral Remarks of FIOD  Sincere and dadic  work with a sense of  Eral Remarks of Director Des n  Need Impro  Not Punch  Catisfacian	performence James 18/2 Signature

Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		08
			8
2	Decency of Dress		88
3	Facial Expressions		69
4	Quality of Voice		
5	Confidence Level		0.7
6	Use of White Board/Black Board		09
7	Use of ICT/ Projector		08
	Pre-Class preparation		08
. 8	1. 4-2   20   1   1   1   1   1   1   1   1   1		07
9	Skill of Putting Examples		68
1.0	Generating Queries		
11	Class Discipline		10
12	Punctuality		- 10
	Generating Interest in Subject	-	80.
13			07
14	Encouraging Participation		
15	Guidance and Advice		0.8
16	Inside Class Motivation		<b>o</b> 7
	0.00004100		67
17		%	137 (80.6%)
	Score 170		

SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR
Teachers Self Appraisal for Session 20.22.-20.23

	Teachers Sen A	ppraisarior gees.			. 0	0	
Name of College Shri Rom Coll	04704	- BI	BA Design	lation. Assist	ant be	ofense	u
Name of College Shru Kom Low	ege, Main	Department	and see a contract of the cont			U	
	V	- 1-110	07 25-	Gioining 2011	2 2020	( <u>)</u>	
1-Name Shivani Sharma	2-Date of	Birth 1517/19	.1.2 3-Date 0	Jonning			
1-Name	1		w 1	71			
4- Previous Experience (in years): Tes 5-Specialization	C A odh	No 56310630	40481 7-P.	AN No. CFOPS	0.15.15		
5-Specialization	0. Olas D	A I MUZZ	100000000				
8-Address 652 Mak high	1. Dropa I	0.00	00	01012656	anai	1-Cana	
8191834088	Whatsapp No	9103468 B-W	Iail gautan	1.002130266	Jan	W. Same	
			, , , , , , , , , , , , , , , , , , ,		-		
9-Teaching performance:				No. of Student	s		
Papers Taught in session	No. of F	Periods	mul C	lear Passed		- 70	
Odd/Even sem.	10, 011	Citods	Total C Stdnts		Passed	Pass	%
Note:- Exam Result : Odd Sem	Allotted Per	Taken in	Appd I	Percentage	With		
(this year), Even Sem (last year),	week	Odd/Even Sem.	in	1 1 1	B/CO	Cle	B/
Annual (latest) be given		тР	Exam   ≥   60	≥50/ ≥40 /	Paper	ar	COP
Allittat (intest) se give	L T	LPTP	60	<60 <50		0.0.1	
Even Sem (21-32)	10	129	161 130	16 7	8		496
OTB	12	181	167 112	28 21	6	9640	3 60
EM	12	181			0	95.18	11.82
Odd Sem (22-23)	12	124	187 135	23 20	9	90,54	240
AFA		57	74 39	18/10	0	82.22	
BL	6	71	45 20	9 8	1.0	0270	1.70
CT-DSIT	Teaching	in PG and Other	Departments		JETAN	7	
	1 1						
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			101 100	94 66	138	nk.n	8 6.00
Total Nos.	48	562	634 436	117 100			
Total Nos.			-	Α. Α	bsence		
10-Regularity and Punctuality: Le	eave availed	10 1	ate Arrivals				
10-Kegmany and Lancon.			1.1	- (	Detail) -		
11-Details of Course teaching plan	exmonses of lectu	rers and reading lis	ts supplied to stu	dents (Attach une	Detail		
11-Details of Course teaching plan	aynopsos o			Even Sem/Ann	nal		.\.\.\
12-Details of participation in the f	ollowing:	Odo	d Sem	ct./Univ.	Int./Coll.	Ext./	Univ.
University/ College wor	k assignments		THU.	1	1		
(i) Ans. Script Evaluatio	n			++	V		
Danay getti	no :			+ 1			
CTlores	A COUNTY THE HIS HID	ession		1	~	-	
( ) Conduct of Exams.	Invigilator/Aprob	duties		1	V		
(v) Evaluation of Disser	Tatton/Frojects			1.5			
	1 144	during the year : (	brief overleaf)				
13- Details of Innovations/Contri (i) Design of curriculum	oution in Teaching	(ii) Teach	ing methods				
(i) Design of curriculum		C Meraln	etion methods				
(iii) Laboratory experim (v) Preparation of resour	omsincludi	ing books, reading	materials, laborat	ory manuals etc.	1.4.4		
(v) Preparation of resour	Ce material mortion	a (academic)	b				
(vi) Remedial Teaching	Student Counsein	P (monday)					
(vii) Any other						, -,	
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	f 2.			ogy)	Yes				
14- Use of IC	T (Information nent of Profession	& Communicat	non Technor	o, in below t	able respect	ively	NPTEL	Assignments	Exam
15-Improven	IGHT OF T TOTOBBIG	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	Courses		certificates
Refresher/	Participation in summer	W OIKSHOPS					Regd.		
orientation	school			S					
attended	5011001					1.511			
attended		TOTAL SA			1	1			
	1			7				The state of the s	
16- Researc	h Contributions	in session:	OA Dhil /Ph	r.a			daming the	vear	
(i)	Number of stud	CITTS TO PROPERTY	During the	year		Complete	d during the		
	At the beginning	3 1				Accepted	1	Communicated	
F.a.	ii)No. of researc	h papers(enclos	se list)Publis	shed		Accepted	tion		
(1	ii)No. of research	lects: (a) Title				(d) Majo	r/Minor		
(ii	(a) Eunding A	gency			nocia (Nos.)	organized (	(Attach the	letail)	- Comment
	i) Research Proj (c) Funding A v) Details of Co	nferences (Nos	.), Seminars	(Nos.), Sym	Posice (1 13 PA)			detail	
(1	v) Details of Co y) Patents taken, vi) Membership	iff any, attach a	brief descr	iption Editorshi	in of Journa	s (Nos.) etc.	(Attach the	detail)	
()	Wi) Membership	of Professional	Bodies (No	s.), Euroran	P C-			i	
to Extens	sion Work/Com	munity Service	+ ~ f viori	contribution	to:		Jamian de	mocracy, socia	lism, humanism,
	i) Please g	munity Service	ount of your	s values of	National Int	tegration, se	cularisiii, u	os:)	
		cive a short according to the community of the peace, scientic	Fo temper	lood or droug	ght relief, sn	nall family n	OTTHS GLO (	-	
N. A.	1,4 1	peace, scienti	racy Missio	n/RUSA (No	)S.)	La with Ex	tension WO	rk and Nationa	Service Scheme
	(b)	hald/Leaders	ship role pl	ayed in organ	nizations III	Ked with m			Service Scheme
	(ii) Position	ns held/Leaders or NCC or any	other simil	ar activity. (b	rief our lear	ነ tribution to :			
	Com	arate Life of Til	Jaso Bridge	hort account	or your con	LI TOLLIO			
18- Parti	cipation in Corp (i) College/Univ	versity/Institution	on			1			
•	(ii) College/Univ (ii) Co-curricula (iii) Enrichmen	ar activities		<b>レ</b> レ	outural acti	vities)	. [::1:1		
	(II) Co-oun tour	of campus life	(hostels, sp	orts, games,	Cultural ar				
	(iii) Enrichmen (iv) Students W (v) Membershi	elfare and Disc	ipline V	ammittees Of	Education	and National	Developme	5111	
	(v) Membershi	p/Participation	in Bodies/C	Ollimiticon of					. = -7.4
19- Pro	(v) Membershi fessional Organi essment:- Steps	zations of Teac	ners	the course pr	ogramme ta	ught Luba dat	- Tire	P	
20- Ass	fessional Organi essment:- Steps neral Data:- State	taken for the ev	ont of vour 1	performance	indicating (a	ittach the det ) suggestions	for improv	ement	
21- Ger	APPOLITIMENT DUCK	0 0127	) difficulties	faced	(111)	) suggestions	101 2		
	(i) Achieveme	nts	) dillioning						
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	fy that all the ab	ove facts and r	elated stater	nents made b	y me are uu				
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	G and autinor lavi	efs may be rep	orted as atta	chment wher	ever reduire				
Note	e: Supporting of								
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Observations & Scores by HoD
(In case of HoD/s, scoring has to be made by the Head of Institution

	Factual	Data		<b>lemarks</b>
			Calla Ca charm	performance, command la performance p
1	Teaching Performance		Compared Constraints	collège as well as in classion
	Regularity and Punctuality	1 orang of lectur	es Paris 4 June 100 III	1 -il chidu materia
	Details of Course teaching p and reading lists supplied to	students	Maintain leetur supplied to s	e plan and study material
+	Details of participation		Participated in al	alloted college work assign
5	Details of Innovations/ Con	tribution in Teaching	Preparing of s	study material only
6	Use of ICT		Vac	
7	Improvement of Profession	al Competence	one Seminar	attende
8	Research Contributions in		NIL	
9	Extension Work/ Commun		HIL	
10	Professional Organisations		HIL .	to 1 tools
$\frac{10}{11}$	Assessment		Through assignm	mes 4 (15%)
12	General Data		HIL	
14				
	1.D. vortes of HoD			1) 11-lies we present
enei	ral Remarks of HoD	y in all assig	ned works, takes	responsibilities, represent
enei	ral Remarks of HoD  Routicipates actively the depth in said	y in all assig	ned works, takes	responsibilities, represent sincere 4 promising teams
enei	ral Remarks of HoD  Routicipates actively the depth in said	y in all assig	ned works, takes smmittee Overall	responsibilities, represent sincere 4 promising teams
enei	ral Remarks of HoD  Routicipates actively the depth in said			responsibilities, represent sincere 4 promising tend
		1 Dean	Derformence	responsibilities, represent sincere 4 promising teach
	ral Remarks of HoD  Raticipate actively the depth in sac	1 Dean	Derformence	responsibilities, represent sincere 4 promising tead
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		1 Dean	performence chel	Signature
		10000	Derformence	Signature
Jene	eral Remarks of Director	1 Dean	performence chel	Signature
Jene		1 Dean	performence chel	Signature
Jene	eral Remarks of Director	1 Dean	performence chel	Signature
Jene	eral Remarks of Director	1 Dean	performence chel	Signature
Jene	eral Remarks of Director	1 Dean	performence chel	Signature

# Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		09
2	Decency of Dress		09
3	Facial Expressions		08
4	Quality of Voice		09
5	Confidence Level		08
	Use of White Board/Black Board		10
6			07
7	Use of ICT/ Projector		08
8	Pre-Class preparation		08
9	Skill of Putting Examples		
10	Generating Queries		08
11	Class Discipline		10
12	Punctuality		. 09
13	Generating Interest in Subject		08
	Encouraging Participation		08
14			09
15	Guidance and Advice		- 8
16			08
17	Outside Class Motivation	%	14/L % 84.7
	% Score 170		174

SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20....-20.... Name of College Shen Ram Colleges Department & BA Designation Assistant Brogers 1-Name Nivedita chatured 2-Date of Birth 27/5/1987 3-Date of joining 17/10/2022 5-Specialization HR & Manketing 6-Aadhar No. 36551696 1002 7-PAN No. BPLPP0852C 8-Address UP Steple Alasta Mob No 879/0877. 3.2 Whatsapp No. 879/0377.33 E-Mail. nivedit ... pandey @ gmil con 9-Teaching performance: No. of Students Clear Passed No. of Periods Papers Taught in session Pass % Total Passed Odd/Even sem. Stdnts Taken in Percentage With Allotted Per Note:- Exam Result : Odd Sem Appd Odd/Even Sem. B/CO week (this year), Even Sem (last year), Cle B in >40 / >50/ Paper. COP ar Exam Annual (latest) be given P T P < 50 L 60 <60 L Short Title/Code 94.8 08 odd sem 124 948 23 192 FOM 126 12 F.C 1 Teaching in PG and Other Departments . . 5 94.0 31 80 220 602 250 24 Total Nos. MI Absence Late Arrivals 10-Regularity and Punctuality: Leave availed 1:5 11-Details of Course teaching plan, synopses of lecturers and reading lists supplied to students (Attach the Detail) -Even Sem/Annual Odd Sem Ext./Univ. Int./Coll. 12-Details of participation in the following: Ext /Univ. Int./Coll. University/ College work assignments (i) Ans. Script Evaluation (ii) Question Paper setting (iii) Assessment of Home assignments in session (iv) Conduct of Exams, Invigilator/AS/SS duties (v) Evaluation of Dissertation/Projects 13- Details of Innovations/Contribution in Teaching, during the year: (brief overleaf) (i) Design of curriculum. (ii) Teaching methods. (iii) Teaching methods. (iii) Laboratory experiments......(iv) Evaluation methods ..... (v) Preparation of resource material including books, reading materials, laboratory manuals etc. (vi) Remedial Teaching/Student Counseling (academic) x sendot le sterely with SRAC, (vii) Any other Page 1 o

	T (Information ent of Profession	1 10	tion Tachno	logy): P.	p. T) Ye	<u> </u>			
Luse of IC	T (Information ent of Profession	& Communica	tion Tecinio	o, in below t	able respect	ively	NPTEL	Assignments Ex	am
i-Improvem	ent of Profession	onal Competen	Ceminars	Symposia	M.Phil.	Ph.D.	Courses	certi	ficates
Refresher/	Participation	Workshops	Semmans	25,1			Regd.		
orientation	in summer		( A - 4 E /				, respon		
courses	school					1	1		
attended		1				1			
atteriaca		1			1				
	1 1	1 1		, S. ,					
6- Research	h Contributions Number of stud	In Session.	(M.Phil./Ph	.D.)		Completed	during the	year	
(i)	Number of state	ICHICS TO BATTER	During the	year		Company			11
	At the beginning	g L	-			Accepted		Communicated	<del></del>
		1 and on clo	se list)Publi	shed		Acceptor	tion		
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(iii	i)No. of research i) Research Pro (c) Funding A y) Details of Co	jects: (a) Title.				(b) Dura (d) Majo	Attach the	letail)	
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/ ;	v) Details of Co ) Patents taken vi) Membershir	inferences (No	S.), Denimar	intion			(Attach the	detail)	
(1)	Datents taken	, if any, attach	a brief descr	iphon,	ip of Journa	ls (Nos.) etc.	(Attach the		
. (V	() Membershir	of Professiona	Il Bodies (N	المارين المارين وردون	*	1			
()	vi) Membersing sion Work/Con	munity Service	<b>9</b>	tailaution	to:	)	-	emocracy, socialism, os.) Jones in Ma	humanism
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- 1	(1)	National Lite	eracy Missio	n/ RUSA (14	wizations lin	ked with Ex	ctension wo	rk and ramona-	
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18- Partic	(ii) Position (NSS)	orate Life -	ion						
10	(i) College/Un	versity/mstitut	/ ·			iting)	- 1		. :
1	(ii) Co-curricu	lar activities	- a'1a a	norts, games,	cultural act	Milles)		,	
	(iii) Enrichmen	nt of campus lity velfare and Distip/Participations of Tea	le (Hostois, b	P0, D		1 7 Tetiona	1 Developm	ent	
	(iv) Students V (v) Membersh fessional Organ	velfare and Dis	cipinie	ommittees o	n Education	and Nationa	COCCE	(Crichan)	
	(v) Membersh	ip/Participation	1 in Bodies/	to at	evaluation	, Combre	4330	Sueres	
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19- Pro	16881011111 O'B	taken for the	evaluation of	formance	indicating (	attach the de	all)	ement.	
20- Ass	(v) Membersh fessional Orgar essment:- Stepa neral Data:- Sta	te brief assessn	nent of your	periormanos	(iii	attach the del ) suggestions	2 TOU HITPION	clife	
21- Ger	aeral Dala. Pu	100	ii) difficultie	s faced		ile con	Os sami	se cos,	
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Note	e: Supporting b	riefs may be re	ported as att	achment who					- :-
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Note	e: Supporting b	riefs may be re	ported as att	achinent who					Page

# Observations & Scores by HoD (In case of HoD/s, scoring has to be made by the Head of Institution

	Factua	I Data	Remarks
			Satisfactory, manage class nicely
- 1	eaching Performance		Less casual leaves, Punctual
	Legularity and Punctuality		es land and shared
la	Details of Course teaching and reading lists supplied	g plan, synopses of fectors to students	. 1 10 Lette estudent
	a Lieugian		Participated in all college work assignment
ļ I	Details of participation  Details of Innovations/ Co	entribution in Teaching	students courseling
× ×		onumbution in 1 costs.	Yes
	Use of ICT	1.Ctongo	one workshop attended
	Improvement of Profession		
8	Research Contributions in		Donations to help provs
9	Extension Work/ Comm	unity Service	
10	Professional Organisatio	ns	Through assignments & tests.  No specific a chievements
11	Assessment		Through ussy
12	General Data		No specific a chever
	\$ 2 × 2×	i -	
enera G	I Remarks of HoD	all alloted task	s, affectionate teacher among studen
enera G	I Remarks of HoD  ives 100% in  Shown good s	all alloted task	s, affectionate teacher among studence potential.  Signature
enera G	Il Remarks of HoD  Iives 100% in  Shown good &	all alloted task	e potential.  Signatur
		1.	
	I Remarks of HoD  ives 100% in  Shown good s  cal Remarks of Direct	1.	
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		1.	e potential.  Ive Signatur  Long the Standents  earn and reedy to work  Agreeth, Signat  Topon
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Gener	al Remarks of Direct	1.	
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Gener	al Remarks of Direct	1.	
Gener	al Remarks of Direct	1.	

# Feedback for teacher by Student & HoD . (In case of HoD/s, scoring has to be made by the Head of Institution)

Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
Subject Knowledge		07
The state of the s		08
		08
		09
Quality of Voice		09
Confidence Level		
Use of White Board/Black Board		00
		07
		07
		08
Skill of Putting Examples		0.8
Generating Queries		
Class Discipline		08
Punctuality		09
		09
		89
Encouraging Participation		98
Guidance and Advice		
		٩٥
		.08
	0/0	140(82,3%)
% Score 170		190(000)
	Use of White Board/ Black Board  Use of ICT/ Projector  Pre-Class preparation  Skill of Putting Examples  Generating Queries  Class Discipline  Punctuality  Generating Interest in Subject  Encouraging Participation  Guidance and Advice  Inside Class Motivation  Outside Class Motivation	Decency of Dress Facial Expressions Quality of Voice Confidence Level Use of White Board/ Black Board Use of ICT/ Projector Pre-Class preparation Skill of Putting Examples Generating Queries Class Discipline Punctuality Generating Interest in Subject Encouraging Participation Guidance and Advice Inside Class Motivation Outside Class Motivation  Vy Score 170

# SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20....20....

	Teachers Sch 12	рртка-					1,000	
Name of College SHRI RAM.		CON	AMERNE T	)esignation	ASST. PI	20F		
Name of College. SHRI. KAM	COLLEGE	Department.	The state of the s	, Co. G.				• •
1-Name PooJA RAGHUVAN	6#	1-1.00	, Y	- diain	ing 6/sep	12014		
POSTA RAGHUVAN	ISHI 2-Date of	Birth. 20 . 7 . 1.1.7.	<del>ا۔</del> 3-1	Date of Join	шв			
4- Previous Experience (in years): Tea	NII		Industry					
4- Previous Experience (in years): Tea 5-Specialization	aching	79115	M5-9411	7 DANN	o DDCPI	284171		,
					U, Leader Herrica	1	1 3 5 4	
5-Specialization	W MUAR SI	DUTH CIVIL	LINES, I	MZN				
5-Specialization 8-Address 1248176 SANTO Mob No. 9084992298	QL.	0010100	1000	Ja ska	C2020 A	) gmail	· Com	-
Mal No 9084992298	Whatsapp No Q.4.	<b>97910900</b> Е-М	1a11	J		0		
[VIOD 140			* *		The second secon			
9-Teaching performance:				No.	of Student	S		
Papers Taught in session	No. of F	Phira	Total	Clear F			Pass 9	į. l
Odd/Even sem.	10, 011	Orload				Passed	Pass /	8
	Allotted Per	Taken in	Stdnts	Perce	ntage	With		
Note:- Exam Result : Odd Sem	week	Odd/Even Sem.	Appd		1 4	B/CO	Cle B	
(this year), Even Sem (last year),	VVOII.			≥   ≥50	/   ≥40 / ⅓	Paper		OP
Annual (latest) be given	TP	L   T   P "	Exam	60 <60	<50			
Short Title/Code			1 1 1		38	61	74.6%	5.4%
Short Title,	18	90	240	84 57	The state of the s	08	95.54	1.50%
BM	03	60	176	70 43	31	VAITE		
Au	03	60	190	KE	ULT AN	ATTE	<b>D</b>	
Bo	03	30	95	RES.	ULLAN			
FNH	0.5				<u> </u>			1
	1 27 1 1 2	73.72.57			<u> </u>	بن	1	
	Teaching	g in PG and Other	r Departme	ents		1	10010	NIL
		65	53	55 NI		NIL	100/	NIL
IM	06	65	40	35 5	NIL	NIL	10049	1466
SM	06	03			1	-	+==	
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HOLSO			1 1 1 1 1	12 3 3 3 3		<u> 1                                   </u>	1-4	<del></del>
Total Nos.								
		Transfer of the second	ate Arrival	s -	A	bsence	NIL	1
10-Regularity and Punctuality: L	eave availed	14	Jato Tittives	11-				T
10-Regularity and timestary			1.4		(Attach the	Detail) -		ŀ
11-Details of Course teaching plan	of lect	wers and reading li	sts supplied	to students	(Auach in	Domin		
11-Details of Course teaching plan	n, synopses of icom			<u> </u>	en Sem/Ann	nal		
	Olleving	Od.	ig Sein			Int./Coll.	Ext./	Jniv.
12-Details of participation in the	IOHOWING.		Int./Coll.	Ext /U	$\frac{\text{miv}}{2}$		7	
This period College wo	IT HOPE DITTE		/ /			-		
(i) Ans Script Evaluation	On		//			11		
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a \ a duat of Evams	MAIGHTONADIDE	CHILOS	//	/ V				
(v) Evaluation of Disse	STARLIOIN FIGURE							
	la management	during the year:	(brief overl	eaf)	TOT			440.0
13- Details of Innovations/Contr (i) Design of curriculum (iii) Laboratory experir	ibution in Teaching	(ii) Teac	hing method	ds. Usuel	Quelo de	time o	ral & h	net
					, ser court	KING. U		
(iii) Laboratory experir	nents	ling books reading	materials, l	laboratory i	manuals etc	4,69		
(i) Design or curricular (iii) Laboratory experir (v) Preparation of resor	urce material includ	minior (exicon Sim	to their lar	er regu	ived			
(v) Preparation of reson (vi) Remedial Teaching	g/Student Counseli	ng (academic)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			· Ip		
(vii) Any other				1	· · · · · · · · · · · · · · · · · · ·	n		
(VII) Ally other						- }		
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		20 a 20 a		To the				

			tion Technol	ogy)				*****	
4- Use of IC	Γ (Information ent of Profession	Communica	e indicate I	no, in below to	able respecti	vely	NPTEL	Assignments	Exam
5-Improveme	ent of Professio	Ital Composition	Seminars	Symposia	M.Phil.	Ph.D.	Courses	1 LDDAB-	certificates
Refresher/	Participation	Workshops	OCITITATIO	-5.,1					
orientation	in summer						Regd.		
courses	school			State-Mark			1		-
attended					,		_	-	
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(i) 1 (ii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (v) (v) (	Contributions Number of stude At the beginning (No. of research Research Proj (c) Funding Ag ) Details of Con Patents taken, i) Membership ion Work/Comm (NSS), ii) Position (NSS), ii) College/Univ ii) Co-ourricula iii) Enrichment (iv) Students we (v) Membership essional Organiz ssment:- Steps teral Data:- State (i) Achievement that all the about	n papers (enclosects: (a) Title gency  Ifferences (Nosifi any, attach a of Professional munity Service ive a short accommunity wheace, scienti National Lite is held/Leader or NCC or any orate Life: Pleasity/Institution activities of campus life elfare and Disco/Participation attons of Teace alden for the extra transport of the extra t	se list)Public  NA  ), Seminars  brief descri  Bodies (Ne  ount of your  work such a  fic temper, f  racy Mission  ship role pla  other simila  ease give a s  on Yes  (hostels, sp  ipline Appl  in Bodies/C  hers NA  valuation of  ent of your pla  difficulties	(Nos.), Sympotion NA s.), Editorship contribution s values of None lood or drough RUSA (None are activity (br hort account of contribution orts, games, committees on the course properformance in faced NA	p of Journal to: National Integrations lind ief our leaf) of your cont Activities cultural activities Leading Education a ogramme tau ndicating (at	Accepted (b) Durat (d) Major organized ( s (Nos.) etc. egration, sec all family no ced with Ex ribution to: ities) Cultive the defar and National ught tach the deta suggestions	ion	detail) NA detail) NA mocracy, socia os.)  ck and National ox Activit ox Activit checking	lism, humanism Service Schem Golfabsali everts oudinates
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						or submitte	d on separat	e note sheets.	
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Observations & Scores by HoD
(In case of HoD/s, scoring has to be made by the Head of Institution

		Remarks
	Factual Data	- 15 dage
	Teaching Performance	God Teacher
L.	Regularity and Punctuality	Need to be Emproved  Course plans one prepared in well
	Regularity and I tutotters	course plans one prepared
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	mannered"
	and reading lists supplied	Member of cultural committee
	Details of participation	Memore of Call
4	Details of Innovations/ Contribution in Teaching	
5		_
6	Use of ICT	
7	Improvement of Professional Competence	to be improved
	Research Contributions in session	Need water
8	Extension Work Community Service	Need to be Improved  NSS co-ordinator
9		
10	Professional Organisations	
11	Assessment	Active Participation in Admission.
	LD-to	Active rangerpooring
12	General Data	
Gen	eral Remarks of HoD Desn  - Active Participation in Admi	the students
Gen	eral Remarks of HoD Dean  - Active Participation in Admi  - Good Teacher, Popular among	the students  Aament Signature
Gen	eral Remarks of FIOD Dean  - Active Participation in Admi  - Good Teacher, Repular among	the students  Aament Signature
Gen	eral Remarks of FIOD Desm  - Active Participation in Admi  - Good Teacher, Popular among	the students  Aarnel 5/8/2009 Signature
		the students  Aament Signature
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Feedback for teacher by Student & HoD

(In case of HoD/s, scoring has to be made by the Head of Institution)

NT <sub>0</sub>	(In case of Hob/s, sooth) Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
.No.			8
1	Subject Knowledge		7
2	Decency of Dress		
3	Facial Expressions		8
			β
4	Quality of Voice		7
5	Confidence Level		8
6	Use of White Board/ Black Board		9
	Use of ICT/ Projector		
7			8
8	Pre-Class preparation		8
9	Skill of Putting Examples		
10	Generating Queries		8
1.0			9
11	Class Discipline		7
12	Punctuality		0
10	Generating Interest in Subject		0
13			9
14	Encouraging Participation		8
7 15	Guidance and Advice		9
	5 Inside Class Motivation		
10			9
1	7 Outside Class Motivation	%	75.88 %
	% Score		

SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR
Teachers Self Appraisal for Session 20....-20....

SHRI RAM GROUP OF Session 2020
Name of College SHRI RAM COLLEGE Department COMMERCE Designation ASSISTANT PROFESSOR
Courte Denorment Commerce Designation
Name of College SHRI KAM COLLEGE Department to Department
Name of Condy Jaks - Date of joining 1 1 January 2021
NOTAIA KANSAL 2-Date of Birth A. C. C.
1-Name NAINA BANSAL 2-Date of Birth 21/Octobe 11.183-Date of Johnny 1-Name NAINA BANSAL 2-Date of Birth 21/Octobe 11.183-Date of Johnny 11.183-Date of Joh
4- Previous Experience (in years); Leading 4- Previous Experience (i
5-Specialization FINANCE 6-Aadhar No. 1113 BOZZMAN CHOOK MZNI 5-Specialization HANCE ABOUT MEST HANCEMAN CHOOK MZNI  5-Specialization HANCE CHOOK MZNI  5-Specialization HANCE MZNI  5-Specialization MZNI  5-Specialization MZNI  5-Specialization MZNI  5-Specialization MZNI  6-Aadhar No. 1113 BOZZMAN  6-AARDAR NO. 1113 BOZZMAN  6-
4- Previous Experience in yours 6-Aadhar No 1173 6624 1571 7-PAUL MANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE MZNI 5-Specialization TINANCE 6-Aadhar No 1173 6624 1571 7-PAUL MANCE 6-AAADHAR 6-AA
8-Address 62, Nas AB (MUNIT NES) E-Mail Nainabansal2110(c) Gmail Com
5-Specialization TINHAU CHON SPECIAL COM Secular Securar Securar Securar Securar Secular Securar Secur
No. of Students
Papers Taught in session No. of Periods Total Clear Passed Pass of Stdnts Stdnts With
Odd/Even Sein. Percentage With
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Business Communication - 6 - 6 - 712 21 20 110 67
Busines Communicative Eng - 6 - 90 - 918 21 20 1
Corporate Accounting Teaching in PG and Other Departments  Teaching in PG and Other Departments
Rusiness Management 6
Business Management
(BCOMUB)
Tratal Nos Absence A 171
Total Arrivals
10-Regularity and Punctuality: Leave availed  11-Details of Course teaching plan synopses of lecturers and reading lists supplied to students (Attach the Detail) -  Odd Sem Byen Sem/Annual Odd Sem Int./Coll. Ext./Univ
aymonses of lecturers and reading lists supplied to
Odd Sem Byen Sem/Annulai  Odd Sem Byen Sem/A
Int /Coll. Dext/Ours
12-Details of participation in the 1910 University/ College work assignments  University/ College work assignments
University Conogo (i) Ans. Script Evaluation
(i) Ans. Script Dytans. Script Dytans. Script Dytans. Script Dytans. (ii) Question Paper setting.
(ii) Question Paper setting (iii) Assessment of Home assignments in session (iii) Assessment of Home assignments in session
(iii) Assessment of Home assignments (iv) Conduct of Exams, Invigilator/AS/SS duties (iv) Conduct of Exams, Invigilator/Projects
(iv) Conduct of Exams, in vision/Projects (v) Evaluation of Dissertation/Projects
(v) Evaluation of Dissertation 17-20.  (v) Evaluation of Dissertation 17-20.  (v) Evaluation of Innovations/Contribution in Teaching, during the year: (brief overleaf) Projector Board  (ii) Teaching methods. As a mean Test.  (iv) Evaluation methods As a mean of curriculum.  (v) Evaluation methods as a mean of curriculum.
Teaching methods (ii) Teaching methods As a ment Test
(v) Evaluation of Dissertantes (v) Evaluation of Thissertantes (brief overleaf) Projector Board  13- Details of Innovations/Contribution in Teaching, during the year: (brief overleaf) Projector Board  (ii) Teaching methods Assenment Teaching (iv) Evaluation methods Assenment Teaching materials, laboratory manuals etc.
(iii) Laboratory experimental including books, reading materials.
(i) Design of curriculum (iv) Evaluation methods (iii) Laboratory experiments. (iii) Laboratory experiments including books, reading materials, laboratory manuals etc. (v) Preparation of resource material including (academic)
(v) Preparation of resource material includes (academic) (vi) Remedial Teaching/Student Counseling (academic)
(vii) Any other
(VII) Table

es ants Exam
Communication Technology)
Proprietable Community and The Proprietable Control of the
4- Use of ICT (Information of Competence: indicate no. management of Professional Competence: indicate no. management of Professional Competence: indicate no. management of Professional Courses
5-Improvement of the workshops workshops bounded by the workshops bounded by the workshops bounded by the workshops because the workshops by the workshop by the worksho
RETURNAL TOTAL TOT
orientation in summer school
courses solid
attended oB 61
Completed during the year
16-Research Contributions in session:  (i) Number of students registered (M.Phil./Ph.D.)  Completed during the year  (ii) Number of students registered (During the year  (iii) Number of students registered (M.Phil./Ph.D.)
16- Research of adulants registered the year
(1) Number
At the beginning Accepted Accepted (b) Duration (b) Duration
a -couch papers (enclose list) rubination (d) Major/Minor.
(ii)No. of research (a) Title
(iii) Research Project Symposia (Nos.) or Burney
(c) Funding Agents, Nos.), Seminars (1)
At the beginning  (ii) No. of research papers (enclose list) Published  (iii) Research Projects: (a) Title  (iii) Research Projects: (a) Title  (c) Funding Agency  (iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) etc. (Attach the detail)  (iv) Details of Conferences (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)  (v) Patents taken, ill any, attach a brief description  (vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)  (vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)
(v) Patents taken, all any socialism, humanisi
(vi) Membership of Professional (vi) Membership of Professional Service (vi) Membershi
(vi) Membership, Of Franciscoperation (vi) Membership, Of Franciscoper
17- Extension Please give a short account such as values of trelief, small family and service Sche
(iv) Details of Community any, attach a brief description of Journals (V) Patents takerr, if any, attach a brief description of Journals (V) Patents takerr, if any, attach a brief description of Journals (Vo.) Patents takerr, if any, attach a brief description of Journals (Vo.) Professional Bodies (Nos.), Editorship of Journals (Vo.) Professional Bodies (Nos.)  17- Extension Work/Community Service  (i) Please give a short account of your contribution to Please give a short account of your contributions linked with Extension work and National Service Schenes, Scientific temper, flood or drought relief, small family norms etc (Nos.)  (b) National Literacy Mission/RUSA (Nos.)  (b) National Literacy Mission/RUSA (Nos.)  (b) Positions held/fleadership role played in organizations linked with Extension work and National Service Schenes, Scientific temper, flood or drought relief, small family norms etc (Nos.)  (ii) Positions held/fleadership role played in organizations linked with Extension work and National Service Schenes, Scientific temper, flood or drought relief, small family norms etc (Nos.)  (b) National Literacy Mission/RUSA (Nos.)  (c) Professional Bodies (Nos.)  (d) Professional Bodies (Nos.)  (e) Professional Bodies (Nos.)  (ii) Please give a short account of National Integration, secularism, democracy, socialism, humanism of National Integration secularism.
peace, scientifications linked with Extensions linked with Extensions
(b) National little ago role played in organization (eaf)
Positions held/leaderstrailar activity (print) contribution to The colling Member on the similar activity (print)
(II) (NSS) on NCC or any outper a short account of Internal Internal Internal Internal
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21- General Data, June (ii) and control
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Observations & Scores by HoD
(In case of HoD/s, scoring has to be made by the Head of Institution

1	Factual Data	Remarks
1	Teaching Performance	Good Jescher
2	Regularity and Punctuality	Regular and huncher
	Details of Course teaching plan, synopses of lectures	GIP Prepared in well mounter
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4	Details of participation	Afficials seeding to work I amy work
5	Details of Innovations/ Contribution in Teaching	
6	Use of ICT	Projector
7	Improvement of Professional Competence	
	Research Contributions in session	Need to be improved
8	Extension Work/ Community Service	
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10	Professional Organisations	
11	Assessment	
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Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
			8
2	Decency of Dress		8
3	Facial Expressions		7
4	Quality of Voice		9-1
5	Confidence Level		9
6	Use of White Board/ Black Board		8
	Use of ICT/ Projector		7
7			8
8	Pre-Class preparation		9
9	Skill of Putting Examples		8
10	Generating Queries		8
11	Class Discipline		9
	Punctuality		9
12			Q
13	Generating Interest in Subject		Q
14	Encouraging Participation		
15	Guidance and Advice		ð
16	Inside Class Motivation		8
			8
17	Outside Class Motivation	%	82.94 %
	% Score		

## SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20.....-20....

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	9-Teaching performance:	***************************************			v	~~~	**************************************				•				N
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5	Total Nus.														
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	(iii) Assessment of Home (iv) Conduct of Exams, I	e assigi	nments	in ses	sion *iee			ontental Entenal Exa			Juk -				
	(v) Evaluation of Dissert	ation/F	rojects	, **** <b>F38</b> 2	e Well-flow and		20000	relden In	well !						
	13- Details of Innovations/Contrib	ution i	n Teacl	ning, d	uring L	he yea	ı : (br	Certifical	e lone			. 1 .		alpa	neared
	13- Details of Innovations/Contrib  (i) Design of curriculum.  (iii) Laboratory experiments  (v) Preparation of resource  (vi) Remedial Teaching/S  (vii) Any other—) Ox	PPT9	mode	epepe	1) Confy	hlaf .	achin	g methods. on mathod	Pri,	Li los	Audio VI	SURF, BO	asen	seg /	Næfs
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<b>%</b> 8:	ii) hanciment s	of campus life (I Ifare and Discip!	hostels, spor	ts, games, eu	Autin zeum. A.	.163)	1		
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Observations & Scores by HoD (In case of HoD/s, scoring has to be made by the Head of Institution

	Factual Data	Remarks
	Teaching Performance	Exilent
2	Regularity and Ponctuality	crevel
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12	General Data	bried.

General Remarks of HoD

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			Chairman/Secretae

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Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

(A. 1)	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
	Subject Knowledge		9
	Taxcacy of Dress		8
***************************************	facial expressions	339000 00000000000000000000000000000000	8
	Quality of Voice		9
	Confidence Laval	and the second s	7
	Use of White Board Black Board		8
7	Use at ICT: Projector		<b>V</b>
	Pre-Cluss preparation	:	7
	Skill of Puting Examples		9
īo	Generating Queries		J
	Class Discipline	And the state of t	Secretary of the secret
12	Pancicality	400 400	6
13	Generating Interest in Subject		9
-2//	Encouraging Participation		8
14	Guidance and Advice		8
15	Inside Class Motivation		8.
Ϊó			<b>گ</b>
17	Outside Class Motivation	<u> </u>	137%
Marine Marine	% Score		817.

	Total Collection	33500 (Submitted to Head Office)	o Z		
	Course	200	Free	. 52. mt	
	Actual Number of participants	9	E.	Agriculture Department SRC, Muzaffarnagar	
22-23		67	100	Agricultur SRC, Mu	
Realt. Fi	Maximum ent Intake	100	100		
Ear Callege Van etheringan, 75100.  Department of Agriculture griculture department in session 2022-23	Date of Commencement	15.02.2023	rer year		
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n. Course o	Title of Certificate Course, Add-on Programme	Scientific Cultivation of Mushroom Vernii-	composting	e de la companya de l	
List of Add-On Course offered by Faculty of a	Department	Agriculture		Date: 22,02,2028	
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डायरेक्टर महोदय औराम काँलेज मुजप्रफरनगर (UP)

विशय मशरम ट्रेनिंग के सम्बन्ध में (एडऑन कोर्स) ।



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अवगत कराना है की में सूरज सिंह असिस्टेंट प्रोफेसर डिपार्टमेंट ऑफ़ एग्रीकल्चर, एंड्रें को भशरुम कल्टीवेशन पर सर्टिफिकेट ट्रेनिंग प्रोग्राम कराना चाह रहा हं जिसकी फीस 500 रुपये विभाग द्वारा निर्धारित की गई थी, जिसमे अभी तक 53 छात्रों ने पंजीकरण करा लिया है महोदय इस प्रोग्राम को पूरा कराने में निम्न सामग्री की जरुरत पड़ेगी जिसकी प्रति सलगा है विभन सामग्री प्रदान कराने की कृपा करे महान दया होगी।

धन्यवाद।

Date-08-02-99

श्रुज सिंह सहायक प्राध्यापक कृषि विभाग एस.आर.सी.

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Shri Kain Colleg.



## DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR

To.

Dated: 10.02.2023

Head Office Incharge Shri Ram Group of Colleges Muzaffarnagar

Subject: Fee collection of Add-on Course.

Sir,

You are informed that the Faculty of Agriculture is going to start an add-on course on "Scientific Cultivation of Mushrooms". Course fee Rs. 500/ student has been placed and 67 students have registered, so I deposit the collected fee amount of Rs. 33500. List of students are enclosed.

Dr. Nayeem
HOD
Department of Agriculture



## DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR

# List of registered students in add-on course on "Scientific Cultivation of Mushrooms"

Total registered students in add-on course.

= 67/-

Total students who are paid add-on course Fee

= 67 / -

Total amount of add-on course fee collection

 $= 67 \times 500 = 33500/-$ 

Students list are enclosed

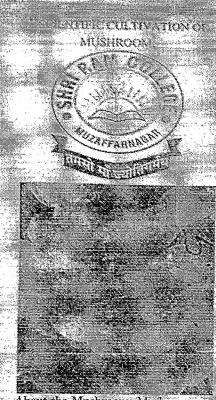
S.N.	NAME OFSTUDENTS	MO. NO.	YEAR\SEM	AMOUNT
1	Palak Kumari	7644818482	3	500
2	Runa Singh	6207104529	3	500
3	Anshu Kumari	8757289259	3	500
4	Sabita Kumari	8409768239	3	500
5	Shivani Supriya	7004989231	3	500
6	Pallavi Kumari	7761892059	3	500
7	Shanker Kumar	8409795064	3	500
8	Nikhil Kumar	8317755869	3	500
9	Abhishek Kumar	7970494779	3	500
10	Amit Kumar Mp	6201307633	3	500
11	Shubham Kumar	8809212005	3	500
12	Himalaya Kumar	6200798377	3	500
_ 13	Nitu Kumari	6206168833	2	500
14	Pooja Kumari	8709581353	2	500
15	Chandan Kumar	9199242898	3	500
16	Rajnandani Kumari	7319899632	3	500
17	Niraj Kumar	8789248048	3	500
18	Manjay Kumar	8709561144	3	500
19	Kundan Sahani	9135048689	3	500
20	Suraj Kumar	7366066548	3	500
21	Irsad Alam	7492897356	3	500
22	Manish Kumar	9155760149	3	500
23	Anuj Kumar	9122165995	3	500
24	Prince Kumar	7667997587	3	500
25	Chhoti Kumari	6204127935	2	500
26	Dharmenra Kumar	9523615037	2	500
27	Akshay Kumar	9060070980	3	500
28	Syam Kumar	9262966673	3	500

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30		7266060816	3 3	500
31	Ajit Kumar	6201777099	3	500
32	Rahul Raj	8235652715	2	500
33	Ratnesh Kumar	6205509331	3	500 500
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/ 36	Bhairav Kumar	9508060960	2	500
37	Chandan Kumar	7353659344	2	500
38	Piyush Raj	5205760634	2	500
39	Raja Kumar	9142680226	2	500
40	Aashutosh Kumar	8102404181	2	500
41	Tushar Anand	6205162847	2	500
42	Shailendra Kumar	8298121156	2	500
43	Vishwajeet Raj	9661860578	2	500
44	Akhat Raj	9661313927	2	500
45	Ritesh Kumar	7352117990	2	500
46	Ravi Kumar	9122855605	2	500
47	Prakash Kumar	9122125554	2	500
48	Vikash Kumar	9142351236	Ž	500
49	Sonu Kumar	7579324842	2	500
50	Nitu Dinkar	9798646584	2	500
51	Monika Singh	7294980799	2	500
52	Chandani kumari :	9264421415	3	500
53	Anjali kumari	8651181393	2	500
54	Vikrant kumar	8294078090	3	500
55	Osama rahmat	9625069782	2	500
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57	Priya singh	9608985428	2	500
58	Rahul kumar	7970783532	2	500
59	Shivani priya	6201022094	2	500
60	Harsh raj	9771295096	2	500
61	Supriya kumari	9065430111	2	500
62	Harsh kumar	6202229273	2	500
63	Priyanka singh	7632854078	2	500
64	Irfan Ahmad	7970718198	2	500
65	Jay lalita	9939870750	2	500
66	Shristi somiya	9060441063	2	500
67	Veena kumari	/ 6206933659	2	500
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(Dr. Nayesm) 23.
Dept. of Agriculture



About the Mushroom: Mushroom are a type of fungi that are now gaining super food status, as they are loaded with some of the most potent nutrients on the planet. Mushrooms represent microbial technology that recycles

### cospitural residue

manure. It is bolid state femoritation system in various crip insidires on converted into variable fixed rich is microbial protein

- Aims
  I. New Horizons for Landless and Jobless Youth
- 2. Establishment of mushroom unit

## Objectives:

- To create awareness about the Mushroom among people.
- To demonstrate the production Technology to participants.
- To evaluate the economics of Mushroom cultivation.

Medicinal Values: Mushrooms have been shown to promote immune function; boost health; lower the risk of cancer; inhibit tumor growth; help balancing blood sugar; ward off wirdses, bacteria, and fungi

### Health benefits of mushroom;

- Lower bad cholesterol levels.
- Boosts bone mineral density
- Helps prevent osteoporosis è arthritis
- Protects against cancer
- Helps prevent anemia

## **- Pep**iles u**zi**lgi kulturka

Work Plans Project unificated on the first of distribution consequences of distribution and system of distribution of distribution and system of distribution and system of the first consequences about the Much consequence distribution because of the consequences of the first consequences. Third step of project walls are consequenced with the consequences of Alexhandran and the consequences.

### Mushroom Cutrivation Technology

- Conversional Value
- Improved cage Coleanaire
- Outdoor Method
- Indoor Method
- Circular Medicide
- Indicerves Charese Unitymics
   Prictic

Cultivation of Oyster masteracts. The oyster masterocats can be grown indoors in cromping house where a temperature of 25-30 °C and schools humidity of 50-85 per cent can be maintained.

- specially straw is used as the raw spits/fite which has to be scaked in vary for 4 hours and boiled or stead, ted in autoclave for 45 minutes and shade dried until 65-70% in Flure.
- Windrical beds are prepared using 30 cm polythene bags with a ckness of 80 gauge.
- riddy straw and spawn are filled as iternate layers in polythene bags and 10-12 holes are made in the beds.

The bags are placed in the cropping house/shed in racks or in hanging rope system. After 15-16 days when the paddy straws in the bags are covered with white mycelia growth, pinheads start emerging where water spray is essential to prevent drying of buds.

- First harvest begins from 3/4 days after in head emergence and likewise at 5-7 days internal three harvests can be done.
- Total cropping cycle is around 40-45 days.

 The inverses bio efficiency ranges (100-150 per cent) depending on the variety.

Cultivation of Milky mushroom: The milky mushroom requires a temperature of 30-35°C and relative humidity of 85-90 per cent. For cultivation of this mushroom two shed are needed.

- Thatched shed / cropping house (28±2°C) for Spawn running.
- · A sunken blue poly house
- Three feet deep pit is dug out and sides are lined with hollow blocks and semicircular structure is built with GI pipe of Langley and covered with Blue silpaulin sheet.
- Paddy straw is processed as in oyster mushroom cultivation and cylindrical beds are prepared with 90x30 cm polythene bags and stored at 30 °C in thatched sheds (spawn running room).
- After 18-20 days when the paddy straws in the bags are covered with white mycelial growth, the beds are cut in to two halves and casing soil (autoclayed garden soil) is layered

- on to the out halves it. 2 on height and sprayed with water;
- The eased beds are placed in poly houses and the required temperature is maintained.
- The pinheads emerge from the cut halves over the casing soil on 25-26th day.
- First harvest begins on 28th day and likewise three- five harvests can be done. The total cropping cycle is around 45-50 days. The average bio efficiency ranges from 150-160 per cent.

### Contacts:

Dr. Ashok Kımıar Dean Agriculture
Dr. Nayeem Ali (HOD) 9412192801
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Dr. Vikrant Kumar (Sub-Cordinator)
9793729323 vkvk6096@gmail.com
DEPARTMENT OF AGRICULTURE

SHRI RAM COLLEGE, MUZAFFAR NAGAR-251001

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# श्रीराम कॉलेज के कृषि विभाग के छात्रों ने मशरूम की खेती के लिए किया प्रेरित



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# रनातक कृषि के छात्रों ने मिलकर मशरूम की खेती करने का एक सरल उपाय निकाला

हमें अपनी आय को बढ़ाने के लिए खेती को नवीन रूप देने के लिए रूफ खेती; गमला खेती, मछली पालन, मुर्गी पालन, पशु पालन एवं मशरूम उत्पादन पर जोर देने की आवश्यकता है....डॉ.अशोक

## पब्लिक एशिया व्यरो

मुजाएकरानार। श्रीराम कालोज के कृषि विभाग द्वारा स्मातक कृषि के स्प्रजी ने मिलकर मशरूम की खेती करने का एक सरल उपाय निकला। मशरूम की खेती करने के लिए श्रीराम कालज के निदेशक डॉ.अशोक सुमार कृषि विभाग के विभाव्यत्व डॉ.नईम एकं डॉ. सुरक कुमार सहायक अध्यापक के द्वारा छोज एकं खत्राओं का

मागंदरान किया।
इस अवसर पर श्रीगम कॉलज के निदेशक
डॉ. अशोक कुमार ने बताया की हमें आनी
आय की बदाने के लिए खेती की नवीन
रूप देने के लिए रूप खेती, गमला खेती,
महत्ती पातन, मुगी पातन, पृत्रु पातन एवं
मशारूम उत्पादन पर जीर देने की
आवर्यकात हैं। हमें बढ़ती हुई जनसंख्या
को देखते हुए अनाज, सब्जी एवं फलो की
पेदाबार बढ़ाने के लिए नई गमागिक
अपनानी होगी अन्यसा देश को एक संबद्ध का सामना कहता पद सकता है हुए अनास महत्ता बढ़ाने के लिए नई गमागिक
अपनानी होगी अन्यसा देश को एक संबद्ध का सामना कहता पद सकता है हुए अनास महत्ता विद्यान विभाग की विभागाध्यक्ष डॉ.महम ने बताया की हमारे देश से आंठ व्यक्ति की दर से सब्बी का उत्पादन कामन





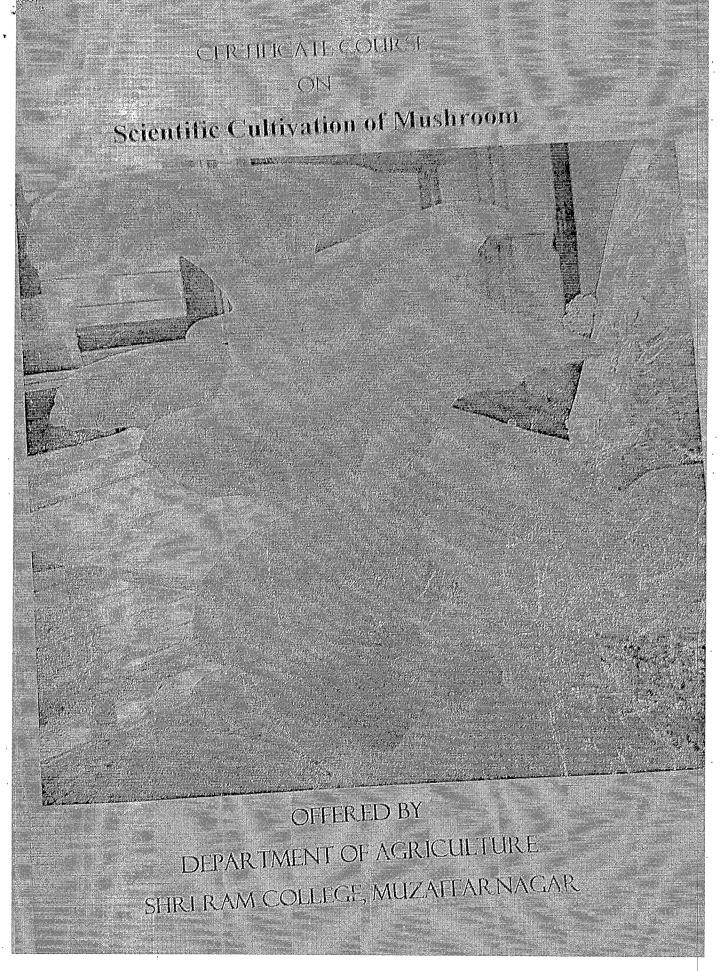
कम है तथा हमें सकती उत्पादन में बढ़ोती करते के लिए मशहम की खेती पर भ्यान देन चाहिए। मशहम की खेती पर भ्यान देन चाहिए। मशहम खाने में स्वादिए होने के साथ-साथ स्वास्थ्य के लिए बहुत ही. उपनी में हैं। इसमें प्रोटीन नेचा उच्चे गुणवता के सूक्ष्म तहते [विद्यापन्य एवं प्रतिज्ञानमी डेंट भरपूर मात्रा में मिलते हैं। जो हमें गैंगों से बचते का जाय में मिलते हैं। जो हमें गैंगों से बचते का जाय में स्वाही जाए में स्वाही जाए में भारत होंगे से अपने घर में स्वाही जाए में भारत होंगे से अपने घर में स्वाही जाए में मात्रा में की चा सकती हैं। सामान में मात्रा में स्वाही का मुख्य होंगे से हैं। सामान के महास्था में स्वाही जा सकती हैं। सामान की महास्था में सामान की सामान की सामान स्वाही हैं। सामान स्वाही हैं। सामान स्वाही सामान स्वाही सामान स्वाही हैं। सामान स्वाही सामान स्वाही सामान सामान स्वाही सामान सामान

प्रीवडर बनाकर कामी जीपतीया बनाई जाही है। इसेलिय यह जवनान विस्तान में लिए जात उपपोर्ती रिन्द हुना है इस अवसर पर सीतम कालेज के पूर्ण बिनान विभाव में सहायक अध्यापक ही. सुरत जुनार में बताया भी हुन बात पर के बनार के अंदर में इस खेता को बन सकते हैं और अपने उपज्ञ या आप का स्तान बना सकते हैं। खान योच्या मणस्म को दी प्रजाति बटन मणस्म एवं मशस्म अस्तिक प्रचलित है। इसके लिए सबसे पाल हमें भूता, पुआल या कम्मोस्ट तथा साव (मशस्म का बीज) की आवश्यकता होती है। पहले हम भीगा हुआ भूता, पुआल या कन्योग्ड को कोई भी फ्यांदीनायक से इसमें उपीरधार फ्यांदी को नष्ट कर होते हैं। १६ घंट बाद पीलीधिंग में भरकर संपान को क्यांद्र कर दी जाती हैं। साफ सफाई का ज्यादा ब्लान रखना और कमरे में रोशनी नहीं होनी पाहिए। यह खेती हागभग ६० से ४० दिन में नेवार हो जाती हैं। इसकी कटाई के तरत बाद ही बाजार में बिक्री को भेज देना चाहिए। मशकम की खेती का प्रस्तुतीकरण करत समय विभाग के डॉ. अंजील जाखड़, डॉ. चिक्रांत, खीं, जीतेन, डॉ. अनंना नेगी, आमर डॉ. राजकुमर, सीचन, मुक्त मैतका,

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and the second second	LODIVAYA	Date -	15-02-23 to 14-03-23
onth - Februsy			
NAME () OFSTUDENTS	15 16 17 18 19 20 21 2	22/23/24/25/2	
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Palak Kumari	<del>(1/01/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/</del>	0000	PPPPP
Runa Singh	13/p/10/p/ 1/p/p	PPP	PPPPP
Anshu Kumari Sabita Kumari	6/0/0/0/1/1/0/01	7 P P P	PPPPP
Shivani Supriya	propertion	PPPP	
Pallavi Kumari	HPPPP HPP	PPPP	PPPPPULL ACCOUNT
Shanker Kumar	PPPPPP	PPPP	PPPPP
Nikhil Kumar	PPAPIPI	PPPP	PPPPP
Abhishek Kumar	PPPPP	PPPP	PPPPP
Amit Kumar Mp	PPPPP	PPP	PPPPP
Shubham Kumar	PPPPP	PPPP	PPPPP
Himalaya Kumar	PPPF PP	PPPP	PPPPP
Nitu Kumari	PPPPP	PPPP	PAPPP
i Pooja Kumari		PPPP	PPPP
Chandan Kumar	PPPP	21111	PPPPP
Rajnandani	PPPPP	pPPP	PPPPP
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i Niraj Kumar	PPAPP	PPPP	
3 Manjay Kumar	PPPPP	PPP	PPPPPN
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3 Anuj Kumar	APPPPP	PPPP	APPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
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5 Chhoti Kumari	PPPPPP	0000	CPPPPPPP
5 Dharmenra Kumar		0000	PPPPP
7 Akshay Kumar	PPPPPP	PPPP	PPPPP
<ul><li>Syam Kumar</li><li>Rohit Kumar</li></ul>	PPPPPP	PPPP	PPPPP
Manish Kumar	PPPPPPA	PPP	PPPPPPPPPP
I Ajit Kumar	PPPPPP	PPPP	PPPPP
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2 Rahul Raj 3 Ratnesh Kumar	PPPPP	PPPP	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
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5 Indrabhushan	PPPPP	- Contraction of the Contraction	
Kumar	P f ' f  f  f	1 1 1 1	
6 Bhairay Kumar	PPPPP	PPP	
7 Chandan Kumar	PPPPP	PPOF	
8 Piyush Raj	PPPPP	PPPI	
9 Raja Kumar	PPPPP	PPPF	
0 Aashutosh Kumar		PPPS	
1 Tushar Anand	PPPBPI	PPPI	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2 Shailendra Kumar	PPPPIP	PPPPI	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP



### Permission letter

To The Director SRC, Muzaffarnagar

Subject: Permission for conduct a training program on "Scientific cultivation of Mushroom"

I am writing this letter to allow for conducting a training program on empowerment of students through livestock technology from 01,09,2022 to 30,11,2022 at 03:45 to 04:45. This will be beneficial for students so that they may use the knowledge for their service or their own startups. Kindly present us for the same.

Date: 16.08.2022

HOD

Department of Agriculture
Shri Ram College, Muzaffarnagar

Date: 16/08/2022

Sofice

This is herby informed to all agriculture department students that a program on "Scientific cultivation of Mushroom" will be organized by Agriculture Department on 01/09/2022 to 30/11/2022 at 03:45 to 04:45. All the concern students are required to reach in the

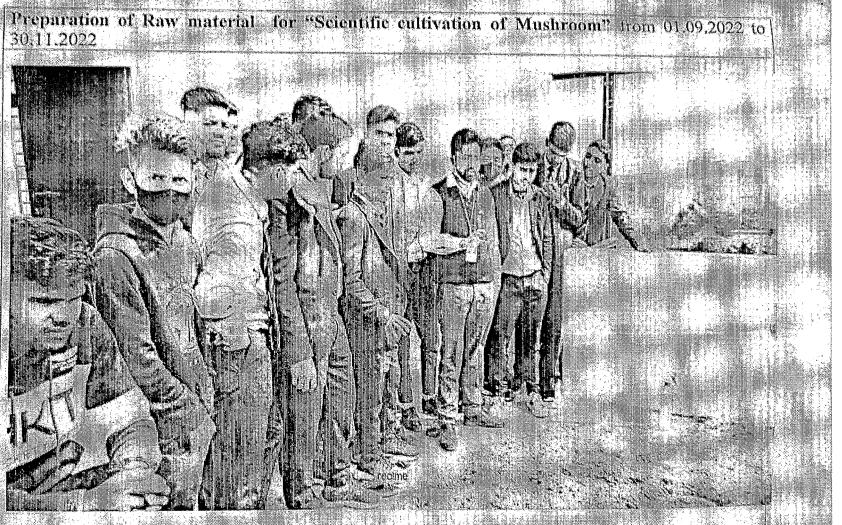
department of Agriculture as per schedule date to attend the trainee.

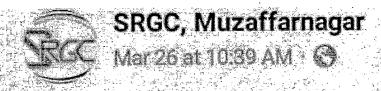
HOD

Department of Agriculture Shri Ram College, Muzaffarnagar

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Scientific cultivation of Mush  Solve Solv	1	Q Q Q Q X C	2	4 d d d d d
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Attendance list of participated()  STUDENTS NAME  AMAN KUMAR THAKUR  F  ANIKET KUMAR  P  P	RATE D D D D D D D D D D D D D D D D D D D	La a a H o	p p AAR	
S. NO. STUDENTS NAME  1 AMAN KUMAR THA 2 ANIKET KUMAR	3 ANJALI KUMARI 5 ANKUSH KUMARI 6 ANTIMA KUMARI 7 ANURAG 8 ARYAN MALIK	9 ASHISH PAL 10 BABLU KUMAR 11 BHAIRAV KUMAR 12 BRAJESH KUMAR 13 CHANDAN KUMAR	14 CHANDAN KUMAR 15 CHHOTI KUMARI 16 CHINTU VERMA 17 DHARMENDRA KUMAR	

List o	f Enrolled Students in "Scientific cul	ttivation of Mushroom" 01.09.22 to 30.11.22
s. NO.	STUDENTS NAME AMAN KUMAR THAKUR	FATHER NAME HARSHIV THAKUR
2	ANIKET KUMAR	KADAM SINGH
3.3	ANJALIKUMARI	GHANSHYAM DAS
4	ANKIT KUMAR	MUKESH PANDIT
5	ANKUSH KUMAR	CHAITU MANDAL
6	ANTIMA KUMARI	HARENDRA PRASAD
7	ANURAG	GANGAVEER
8	ARYAN MALIK	NARAYAN SINGH
9	ASHISH PAL	SUBHASH
10	BABLU KUMAR	BIJENDRA MANDAL
11	BHAIRAV KUMAR	SHIVGANGA KUMAR
12	BRAJESH KUMAR	ASHOK KUMAR YADAV
22.13	CHANDAN KUMAR	VIJAŸ YADAV
_14	CHANDAN KUMAR	VIJENDRA SAH
15	CHHOTI KUMARI	MANOJ KUMAR
-16	CHINTU VERMA	SHAILENDRA KUMAR VERMA
17	DHARMENDRA KUMAR	RAMBILASH SAH
18	DHARMENDRA KUMARV	YOGENDRA PRASAD YADAV
19	DHIRAJ KUMAR	MOHAN SHAH
20	DIVAKAR KUMAR	ANIL KUMAR
21	HARSH	UPENDRA KUMAR ANAND
22	HARSH KUMAR	SHAILENDRA KUMAR
23	HARSH RAJ	RAM RAJEE SAHV
24	INDRA BHUSHAN KUMAR	BAIDYA NATH SINGH
25	JAY LALITA	RAVINDRA KUMAR

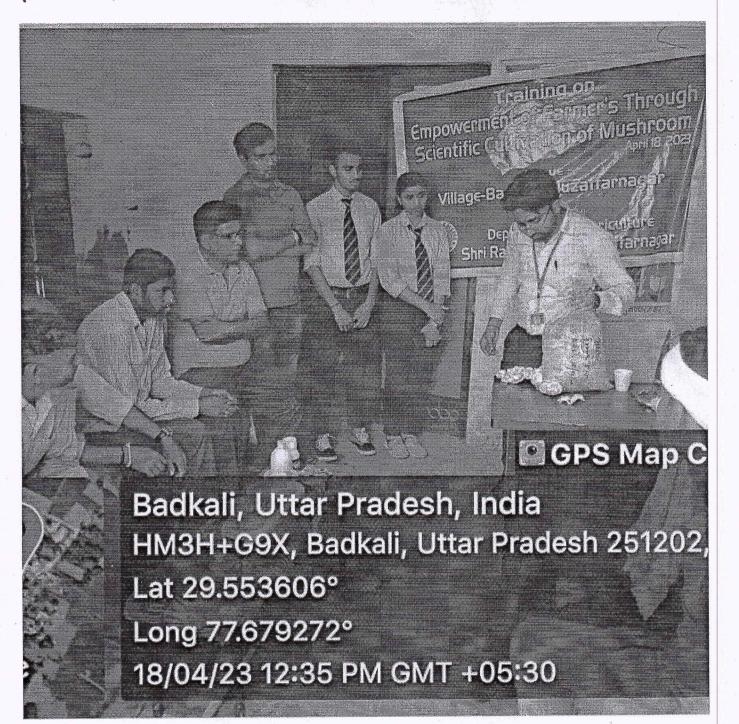




श्रीराम कॉलेज के कृषि विभाग के अध्यापकों तथा छात्रों के संयुक्त प्रयास से मशरूम की खेती करने का एक सरल उपाय निकला। मशरूम की खेती करने के लिए कृषि विभाग के विभाध्यक्ष डॉ. नईम एवं डॉ सूरज कुमार सहायक अध्यापक के द्वारा छात्र एवं छात्राओं की मार्गदर्शन किया।



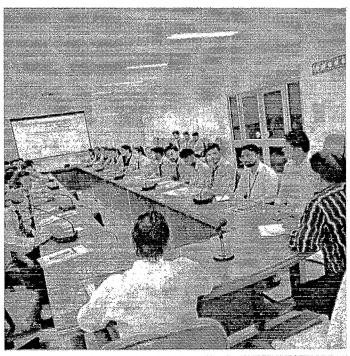
"One Day traing programme " on Empowerment of Formors through Scientific Cultivation of Mush room" in Back Kale U.P. -> 10-April-2023.

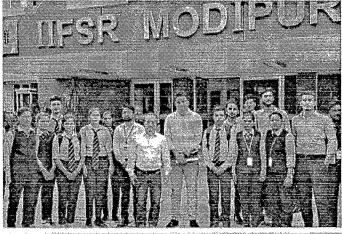


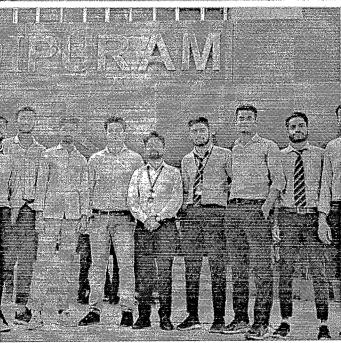


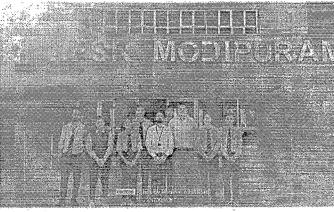


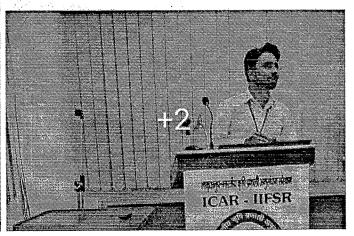
One Day traning program Conducted by IIFSR Meerut, with Shriram group of college Muzaffarnagar "on Food Processing and value addition for doubling farmers Income"

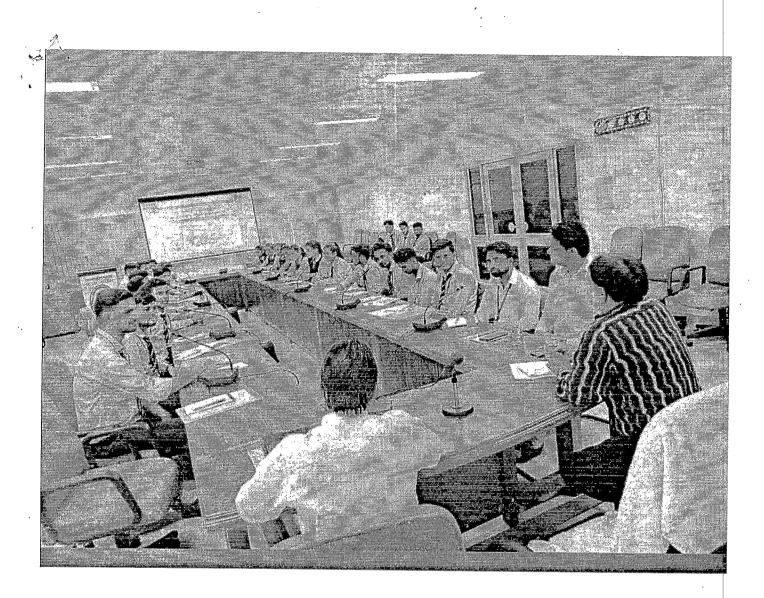












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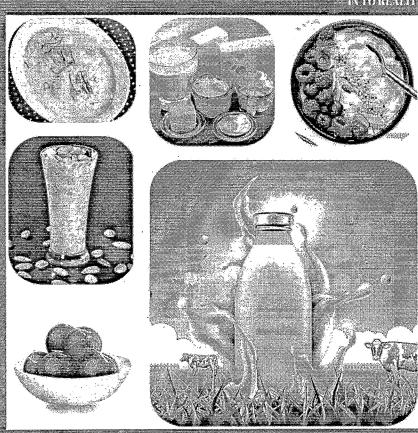
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NATIONAL SEMINAR
ON
"ADVANCE APPROACHES FOR
FORMULATION OF HEALTHY &
HYGIENIC MILK PRODUCTS"
25-26-NOV., 2022

SHRIRAM COLLEGE, MUZAFFARNAGAR

"TRANSFER YOUR " DREAMS INTO REALITY"



### **JOINTLY ORGANIZED BY:**

DEPARTMENT OF HOME SCIENCE



DEPARTMENT OF AGRICULTURE

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# दो दिवसीय राष्ट्रीय सेमिनार का आयोजन

• जनवर्षी रावश्वता, शुन्नमस्त्रास

श्रीराम कॉलंज के सभागत में कृषि डिझान एवं गुड़ विज्ञान विभाग के हारा स्वस्व और स्वच्छ दुग्ध उत्पाद के निमांग के लिए उन्हां डीटकोण विभव पर दी दिवसीय शब्दीय सीमनार का कार्यांजन किया गया।

शोशनाः कः पार्टना होना का राप्तारिक ग्रस्य वांताव शिक्ट सुवा निवल, संस्थान के चेयान हो इस सो क्याबेंग, सीनेदर साइद्रिस्टके वा कंबांगर अनुगण वस्ता श्री राम करनेज के निदेशक हो अरोक कुमार कोर विवास दिसार के विभाग थे. स्टेम, गृह विद्यान विभाग को विभाग छन्। हाँ रवेता राठी हाय संयुक्त रूब से दोन प्रस्कृतित कर किया पदा। संभिनार को मुख्य अतिथ होन्टर सुन्हें निहल ने इस अवसर ग अने संदोधन में कहा कि मानव हो देन में दूध बहुत उपयोगों है, दर्शने पहा कि इस से मगुष्य को अनेको लाभ है जला हुम्ब दिवस कर उद्देश्य लोगों को इस पाने के लिए પ્રોસ્ત પત્યાનો કે દો સાથ છે દુઃપા તત્વારી સ હત્પાદન જો પહાલાં દેવન દેવનો કેટલાંટી કોંન इनके क्षेत्रों की मजबूत करता भी है। औ राशांक कुमार से बताया कि अस्ताकर हुए ने बात बड़ी मात्रा में मिलायट की जा रही



है जिससे मानव जीवन बहुत आधिक प्रभावित हो रहा है हिन्दीन आगे कहा कि इस संगोधी का बोसब दूध में मिलाबट और इनको पहचान करने संबंधित सकसेकों के बारे में बान जायर-कता फैलाबा भी है।

ओ एम हुए ओफ बोलेडोस के संस्थापक चेपरमें हो एस सी कुलकेंट ने आने संग्रेपन में बोलेड हुए फेट्टा कि दूध अपने आम में एक संपूर्ण अवहार है।

यह सनुष्य में गाँचन में एक अहम भूमिकालभाषा है इसीन दुध में मिलाबद कर

संगम्याको संभीर बतात हुए कहा कि कहा हुई अनस्ट्या के लिए दूस मांग पूर्व करना बहुद मुश्कित है अमेरित दूस में मिल्डावट से बारता है । प्रधान में डोक्टर रहेता गठी, ही विकास कुमार, ही जिल्डेंड कुमार, ही अस्ता नेगी, तक्यर असलो, राजकुमार, सक्त मोल्डा मरज मांह, आवद अहमद सर्चा कुमार, स्वीमीमावार, देशा आगर, अलीना विद्या, स्वीमीमावार, देशा आगर, असीना विद्या, स्वीमाना अनसार, महाल मावी, प्रावत पुढोर, आगरण गोर आदि मोजी हो।

# श्रीराम कॉलेज में पर्यावरण संरक्षण विषय पर दो दिवसीय कार्यशाला आयोजित

### **ा**दुसरे दिन के दूसरे सत्र में पोस्टर प्रतियोगिता एवं माखिक प्रतियोगिता में छात्रों ने दिखाया हनर

र्जानको प्राप्त कर्नाटक समाहरूका पुरस्कारणा । भी एक कर्नाटक से क्रांक fante na afte fante alg fartei al : alige amplice a unfajor terama ka contra sentra uniara flucia un ci-Court a application as killed as feed. nan i pia nodenien all airen sifelia. of tron frace transfalters when ngareke ngarak samben ek apparans Mahabba tan tanun sebue safis faute wie fereigt in in franke epidenies ak graf fire af schode fine Source followed by famous a sect enviters if muur all urs, ferm si ander a are area of a confirm from any more service and compared where la utra serare, percaren trad wat served writing on \$ out fava el mont de altres entres: write and brief area areas are at reinen de gemeine ber werden fein werbi. NY NO. POST WINDS WITH UP A के बर्ग और ईश्वर के बन में भी किया minita dell'anno la loca divisità Color a with the arm, and great uit a la cas pouls diet, et unes जी कराई और पार्ट के बाद पर वे प्राप्त tio mi ki pa ingga at mas A Activity process arranged to the second process from the

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al qui e el chi è une e un guere Parties regime at the entered MEN SPECIAL PROPERTY OF SPECIAL PROPERTY. and become any of their sets seems BIS CO. WITH BRIDE BUTCH STOR APPENDIT BOOM AND THE SET WHILE IN arini nen n fille aqual die mederichterange grafe. regressioning after an exclusive and THE HITCH A MADIL WHILE HE DROWN HOUSE HER LANK when latter on his sale sent in a facts into a factor of the case of nanta anne et met eine in aufrebeutere begeben.

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A STORY & SHOW STREET HIS SHOW THE RESERVE OF STREET al water taken andre des weeks and is the street of the stree A TRACTOR OF STREET en den af vermin orden af de en ' tien i kantantan The space of the second second The state of the state of the state of त्ते सकते हैं जिल्लाको को बात के लगा से Storage is the contract to THE RESIDENCE HER MINE PROPERTY AND After account from the sense of After white a ferme of press. And A wide concern a second at

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THE RESTRICTION OF MAIN WAYS Now the state of the state of the The street with brond a growth Francisco de la compania de como THE REST COME NAME OF STREET armin maire att mit erm se see a for annual fact order, an BUILDING ALTON WINES & MARKET matrice of the one of the et l'enne et d Marina and Andrea and A west many dude et sales MIN THE STATE AND ADDRESS. Martine de artine e un é el trace and a contract of the contract of with a state of the state of At element and areas



ई-मामसार गरिका

कृति-प्रवारिको ई-समावार पश्चित् (२०२२) वर्ष २, अंक ११, १२-१४

Article ID: 228

### 67/0i#25

# सरसों की फसल में एकीकृत नाशीजीव प्रबंधन

अरविन्द कमार", सूरज सिंह? अन्ज कुमार

े (शाध छात्र) कीट विज्ञान विभाग, आचार्य नरेन्द्र देव कृषि एव प्रोहोतिक विश्वविद्यालय कुमारगंज, अयोध्या उत्तर प्रदेश े(शोध छात्र) चंद्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय ं कानपर उत्तर प्रदेश

सरसो एक तेल वाली फसल है इसकी बुवाई स्बी मौराम में करते है । भारत में राजस्थान के बाद सरसों के उत्पादन के लिए उत्तर प्रदेश पहुले स्थान पर है। मध्य प्रदेश, हरियाणा, पंजाब, गुजरात आदि राज्यों में सरसों की खेती की जाती है। इसका वैज्ञानिक नाम ब्रेसिका कम्प्रेसटिस है। सरसों के कई प्रकार होते हैं जैसे पीली सरसी, काली सरसों और भूरी सरसों। इसकी उपज के लिए दोमट मिट्टी उपका है। इसकी उंचाई 1 से 3 फिट होती है। इसके तने में शाखा प्रशाखा होते हैं | इसमें पीले रंग के सम्पूर्ण फूल लगते हैं जो तनें और शाखाओं के उपरी भाग पर स्थित होते हैं। सरसी के बीज में 33 से 35 प्रतिशत तेल भी निकलता है | सरसों के तेल में आइसोधायो सामनेट होता है | सर्दियों में इसका साग भी लोग खुब चाओं से खाते हैं। इसके अलावा सरसों के बीज़ों को मसालों में भी प्रयोग करते हैं। सरसों में कीट पत्तेगी से अधिक नुकसान होता है जैसे आरा मक्खी, वित्रित बग माहूँ आदि |

प्रमख कीट-आरा मक्खी-

पहचान एवं हानि- इस कीट की सुड़ियाँ काले स्लेटी रंग की होती हैं । मादा वास्क का पिछला भाग काफी विकसित एवं आरी जैसा होता है जिससे छेद करके पतियाँ में अंडे देती है। नवजात इल्ली हरे रंग की होती है। इत्ली 16-18 मिमि लम्बी होती है। इसके 8 जोडी पर होते हैं। इसका स्ग गहरा होते जाता है। शरीर का पिछला भाग पर पांच काली धारियां होती है। नई पतियाँ में छेद कर खाती हैं। इस कीट का लावीं स्यांस्त के बाद एवं प्रात: काल में

पतीयों को खाता है एवं दिन में मिट्टी के देलों में छिपा रहता है। यह वानस्पति अवस्था पर १ से 2 सिड्मी प्रति पौधा देखने को मिलती है। यह पतियों के किनारे से अथवा पतियों में छेद कर खाती हैं। इनके रोज प्रकोप से पूरा पौधा वरी विदिन हो जाता है।







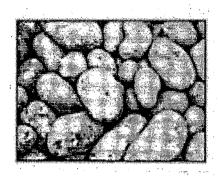
### नियंत्रण के उपाय-

- संत्रित उर्वस्का का प्रयोग करना चाह्ये।
- आरा मक्खी की सहियाँ म्म में गहरी जुताई के नस्त के देना चाह्ये। को प्रातः काल इकहा क
  - प्रतिसंघक प्रजातिमाँ का त्रवन करना चाइये।

हामहाक्योंग्रह 70 प्रतशत डब्सू, जी. 150 ग्राम प्रति हेक्टेयर 600 से 700 लीटर पानी में घोल कर छिड़काव करें।

### आलू के प्रमुख कीट व रोग एवं उनका प्रबंधन

### कृषि कुंम (नवंबर, 2022), खण्ड 02 माग 06, पृष्ठ संख्या 24-28



### आलू के प्रमुख कीट व रोग एवं उनका प्रबंधन

अरविन्द कुमार कीट विज्ञान विमागः, सूरज सिंह कीट विज्ञान विभागः एवं अनुज कुमार कीट विज्ञान विभागः <sup>६,2</sup> आवार्य गरेन्द्र देव कृषि एवं ग्रीवोगिक विश्वविद्यालय कुमारगज, अयोध्या जत्तर प्रदेश

चंद्रशैखर आजाद कृषि एवं प्रीद्योगिक विस्वविद्यालय कानपूर उत्तर प्रदेश, भारत।

### परिचय

आलू एक सबसे लोकप्रिय सब्ती है, आलू को सब्जियों का राजा भी कहा जाता है। देश की शायद ही कोई रसोई ऐसी होगी जहां आलू के पकवान ना बनते हों। आलू की खेती रबी गौसम या शरद ऋतु में की जाती है।

इराकी उपज क्षमता समय के अनुसार सभी फरालों से ज्यादा है इसलिए इसको अकाल नाशक फराल भी कहते हैं। इसका प्रत्येक कंद्र पोपक तत्वों का मण्डार है जो चन्चों से लेकर बूढ़ों तक के शरीर का पोषण करता है। बढ़ती आबादी के कुपोषण एवं मुख्यरी से बचाने में एक गात्र यह मददगार

आलू कार्मोहाइड्रेट का सर्वोत्तन स्त्रात है जो शरीर को ऊर्जा पहुँचाने का एक सबसे अच्छा नाव्यम है। आलू में मुख्य पोपक तत्व पाए जाते हैं जैसे – प्रोटीन, विटामीन एवं खनिज पदार्थ प्रमुर मात्रा में पाये जाते हैं। इस प्रकार प्रति 100 ग्राम धाने योग्य आलू के गाग में प्रमुख मीष्टिक तत्वों की माना में कार्योहाइड्रेट 229 ग्राम, प्रोटीन 1.6 ग्राम, विटामिन ए 240 मिग्रा, विटामिन वी 17.0 मिग्रा, विटामिन सी 0.11 मिग्रा, कर्जा 10 केंद्रोरी एवं खनिज पदार्थ जैसे मास्कोरस 40 मिग्रा, लोहा 0.7 मिग्रा, तथा पोटेशियम 24.7 मिग्रा, मिद्रात है। आलू में स्था उच्च माना में पाया जाता है जो पाचन तंत्र के लिए अच्छा होता है तथा संतुष्टि प्रदान करता है एवं भूख भी कम लगती है। आलू में यसा कोर्लस्टरॉल एयं सोडियम बहुत कम होता है।

आजू में विटामिन शी विटामिन भी 6'
एवं पोटेशियम अधिक माला में होता है।
तापनान गिरने और लगातार मौरान में बदलाव
से इस समय आंतू की फसल में कई तरह के
कीट व शेम लग जाते हैं, अगर समय से
इनका प्रवंचन ने किया गया तो आजू किशानों
को शुकसान उठाना यह सकता है। जानकारी
नहीं आयी है, लेकिन आने वाले समय में रोग

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### Insect Pests of Okra and their Management

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#### INTRODUCTION

That Okea (Abelmorchite exculentes L.). is one of the most common and widely grown vegetable in Pakistan, considered as African tropical vegetable, many countries are collivating okra crop in the world. Okra crop is known by in various names as okre, blands, ladylinger and Quin ambo. Okra seeds are good source of protein, vegetable oil and rich in vitamin A and B, phosphorus and incine, which play vital role in human diet. Okra is a powerhouse of valuable numents, soluble and insoluble fiber, which below to lower serum cholesterol, risk of heart disease, keeps the intestinal tract healthy and decrease colorectal cancer. Okra crop is suffering from number of birtle and abiotic factors, including insect pears and diseases. It is attacked by a number of phytophogous insects, diseases and miles during different growth stages. Number of insect pest from sowing to harvesting such as Aphid, Jassid, Whitefly, Thrip, Spotted boltworms and Mites. Whitefly, Hemisia talsaci (Germ.) is the most important insect sest of okra crop. These pests are damaging erop by sucking the say directly and by transmitting a large number of viral diseases indirectly. Jaxsid found a very damaging sucking insect pest of numb crops in the majority areas of the growing countries of the world and has been found damaging many crops in the world. It has been observed that, both adults and symples cause damage while meking sup of plants. Due to working the color becomes grayish or by injecting toxic saliva into the plant tissues of okra crops and fall down (Cripkling). which as the characteristic feature of jassid attack.

#### Shoot and fruit borer (Eurias vittella):

Identification: The E. vittella moths measure about 2.5 cm across the wings and have a narrow light lengitudinal green band in the middle of forewing. The full grown dall-green caterpillars are 2 cm long having tiny stout latistics and a acries of longitudinal black spots on the body.

रूमो. शाह आलम, जय नाथ पटेल % रूप किशोर पद्यार 🖎 मुख सिंह, आश्तोष राइ

सादार बल्लभभाई पटेल कृषि एवं श्राँद्रोगिकी विश्वविद्यालय, मेरट (उ.प्र.)

तुलसी प्राचीन समार से ही एक प्रवित्र पेंग्रा माना जाता है। जिसे हर घर में लगाकर पूजा आदि होतो है। तुत्तमी का आयुर्वेद में बहुत बहु। स्थल है। तुल्सी से बहुत सारे ग्रेणे का उस्हार किया बाता है। इसका प्रविदेश सेवल करणे से कई प्रकार के ग्रेणे से गहर फिल्ही हैं। वर्तन्तर में इसे औपधीय खेती के रूप में किया जाने स्मा है।

यह संपूर्व भारत में क्या जाटा है। इसकी कई प्रकार की उन्नेतम् हेत्। है इसे ओसीसम् ग्रोसीलकम् ग्रेडीसिम्स चेकटम, गिनियम, अमेरिकेनम । इलसी समाने के लिए खेत की तैयारी के लिए सबसे पहले खेत में प्रक्रम जुटाई में पहले 200 से 300 किवंदत अन्त्रे पत्ती हुई खाद की खेल में विकेट दें रहें। वह मिई में अन्दें सक में गुर्तमित गांगे। अंदिम मुताई करते बढ़ अपर तसरहेंनक खाद विसमें युप्ति 100 किया और 500 किलोबान स्टार कार्यन्ट और 125 किया म्यूट असि पोडारा प्रति हेक्टर के हिसाब में एक समान मूरे रोक में निर्देश दें। तुलती के रुपार के 20 दिनों के बाद खेत में आवस्थक नगी मा ध्यन रखकर 50 किया यूरिया देवें । दूसरी और तीसरी कटाई के तुरंत बाद भी 50 किया यूरिश फारन की देने यूरिस देंगे समय ध्यान रखें कि यूरिया पैंधों के पती यर ना गिरे।

ग्रसायनिक संरवनाः तुलसौ में अनेक क्रैंब सक्रिय रगरान पाए गए हैं, जिनमें रैतिन, सीवीतिन, स्वाहकोसाइड और एक्केलडड्स प्रमुख है। अभी भी पूर्व तरह से इनका विरक्षेत्रम नहीं ही पाया है। प्रमुख सर्करत तत्व हैं एक उन्हार का पीता दहनशीत हैत किराको पाग संपटन स्पान स सपय के अनुसार बदलते रहते है। ८.१ से 0.3 प्रेतरत तक रोत प्रया जाना सामस्य सत् है। 'केल्ड ऑफ इंग्ड्गा' के अनुसार इस तेल में लगाग 71 प्रतिरात र् बेर्नल, श्रीस प्रात्यत यूनांनील मिधाइल ईथा तथा तीन प्रतियत क वर्कोल होता है। जो तुलसी में स्थाप की अंदेश कुछ ऑसिंह रेल होता है तथा इस टेल का मार्गेस्क मनल भी कुछ अधिक होता है। तेल के अतिरक्त पत्रों में सगभग 53 रिप्ट्डेप्राव प्रतिशत विद्योगन सो एवं 2.5 मिल्टेंग्रान प्रतिशत केरीटीन होता है। तुलसी बीजों में हो पीले हर का देश लगपग 17.3 प्रतिशत की मात्र में पापा जाता है। इसके घटक है कुछ सीटोस्टेगेल, अंगरी बसा, अगर मुख्यतः पनिदेश, स्टोपीरक, ओट्सक, तिनोटाक और निनोलिक अन्त रेत के अलावा बोर्स में श्लेपन प्रयूर मात्रा में होता है। इस म्यूस्टिनेन के प्रमुख घटक हैं-पेन्टोस, हेकजी यूर्येनिक अन्त और गर्ख । यस तरांगा ६.२ प्रदेशन होती है।

सुनहीं को खेत में लगाएं: नर्रह में पैये तैयार ऋखं एक रेवटेया के तिए अन्तर्र किस्म का 300 गा 400 प्रम कीन से फिर नर्सर्रे छगते वाली वर्षेत की अन्त्रे जुगई और खाद दे बर एसमें । मोदर की 8 में 10 क्योंगा 1 हेक्स के लिए तैया कर हीं। क्यांचे की जमीन से 75 सैमी कपा रहना चाहिए और बगारी से बचने की दूर्व 30 सेनी रखें ताकि खरतवार को आसनी से निकला जा एके। प्रांत एक्सी में 15 सेमी को दुएँ से बीडी की

### लागदायक औषधीय रवेती



लागे, लागा १०० बेंब एक कारों में आ जारेंगे। बीजों को फिहाँ में से इक देते के बाद उसे गर्गत पानी किइकते हो। 8 से 12 दिनों के बाद भीन संस्तृति हैं।

जाते हैं। दिहर समय समय पर निदर्श गुड़ाई और सिद्ध करते रहें। जब पीपे 12 से 15 सेमी की सम्बर्ध के ही जाये तो उन्हें सावधारी: प्रदेश निकाल के रोतों में रोग सकते हैं।

शाखाओं द्वारा रोपण: तुलसी का प्रसारम बीज के अलावा दर्शनयों से भी किया जाता है। दरके लिए तुलसों की 10 से 15 रेती को दहनों को कारकर उसे छन। ने रखकर संबंह शाम हजार से घर्नी देते रहे। भूगि में एक गार के भीतर उसकी जड़े विकसित हो जातो है और नई पांचर्य निकलने लगती है। उसके बाद उसे कहा से निकृत्व कर बंध में देन सकते हैं।

पींधे की रोपाई: इस फीरे नहीं में तैयार है जाये तो उनमें में स्वरम फेवें के जुल्हें के प्रमासत में 45×45 सेचे की दूरी पर पीचे रोपी बाँदे आप आर आर ओ एस सी विस्ता की तुलसी लेष रहेती तो 50×50 सेनी की दूरी बहर रही। तुलसी की सियाई पेंचे रेपन के बाद एतको सिंबाई की अध्यक्षकता रोती है। गर्गी के दिनों में 15 दिन के अंतरात में सिंगाई करें। पहली कसत कटाई के बाद भी तुल बाद सिवाई अवस्थक होती है। सिवाई से पहले गुरिया नियमनुसार देने जब भी फसत कटर्ड हो जसके 10 रित पहले सिच्हें बंद कर देना जाहिए।

खरपतवार नियन्त्रण और खुदाई निदाई: मुलसी के खेत में बहुत प्रकार के खरपतवार दश जाते हैं जो फसल की पैदावार में रिक्त कार्ट हैं और पेएक उत्तों का नात करते हैं इसलिए इन्हें गेपा के 20 दिन बाद शापतचार को निकाल सेना चाहिए हिन जम भी खतप्रदयन को तो उन्हें गए फरना चाँहए। यद आप एक से अधिक फसल लेना हो तो 10 दिन के अन्तराल में खापतबार निकालने ग्रह्मा साहिए।

फारल की कटाई तुसरी की फारत में कटाई का बहुत महत्व होता है पहाँचा कहाई का सौधा असर तेल की नाज पर पडता है। इसलिए जब मीब्दे की प्रीतवीं का रंग पूरा हवा है जाये है करई का हेगा चाँहए। पूस आने के बाद रेस की पत्रा और गुण्यका पर असर पड़ता है। कटाई हमेशा इसरी धार में करना चरिए तांक पित से नए शाखाई और पत्ते आ सके। कराई हमेशा दार्शों की नदद से कादना चाहिए। तुलसाँ की स्प्रताहील किस्म दीसे RRLO.P है जिस्तों दीन बार उक्त कराई हो सकतो है। जिसकी पहली कटाई जुन और दूसरी फटाई देसम्बर और तीसरी नसम्बर में मी जाती है। इस बिएम भी फारत की कटाई सरह से 30 सेमी क्या से घटन पातिए।

तुलसी की आसबन प्रक्रिया: इस विधि में पसल से तुलसी का तेल निकासा जाता है जिसका प्रचेश बहुत से मध्य वारा, स्ताद, मुख्या आदे में तृतसी का पतेवर साने के तिर उपयोग हेता है। आसवन हमेरा ताज़ फसल से ही फिया जाना चाहिए ताके वेल और गुणवंदा अधिक मिले। एक हैक्टर क्लर्स की फसल से तपर्यका 170 किलोद्रम तक तेल नेकल सकता है।

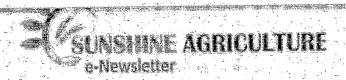
असक विवे से तेल निकलने के बाद बच्चे हुई पीरवें से खाद और बचो हो सकते जराने में काम आ जाती है।

तुलसी का उत्पादनः तृतसी को छेती करने से प्रथम वर्ष में किसान को 400 स्विट्स और उसके बाद वाले वर्षों में सगरग ७०० किर्वटल कार्याय दरादन मिला। है।

साकार की तरफ से योजनाः तुलसी की दोती पर कई राज्ये में आतन द्वार अनुदन भी दिया जाता है। अनुदन के लिए अस अभी जिले के उद्यानिको लिभाग में सम्पर्क कर सकते हैं।

तुलसी के फायदे और उपयोग: हुलसी का बेंध्र भारत के लुगबर दर पर में पान जाता है। हम इसे पुजन मनते हैं और इसकी पूजा भी करते हैं। यह केवल हमारी आस्था का प्रशंक नहीं हे, ब्रांट्क तुल्सों के पेथे में कई औपधीय पून भी भीनूद हैं। आपवंद में भी तहती के कहें उपयोग बटाए गए हैं। तुतनी के पीपे के कई अपनेए हैं और इसके फागई है। जिससे हमें कई रेगों से लंडने में सहायता फ़िल्ती है। और यह हमें खेंक्य के पास जर्ने में सकता है। सबसे बढ़े बात बा है कि तुलसों का कोई सहद इपेन्ड नहीं हैं और इसका उपयोग किसी भी उम्र का करीड़ कर सकता है। तो आइए जानते हैं कि तलगी के क्यान्त्रस प्रायदे हैं और इसका उपवेग किस-किस तरह से किया जा सकता है-

- 1. तुलसे के बीच का चूर्ण मनकर को के रहम खते में खूरी भरस्य एम हो जात है।
- तुसम् इता ऐरता हुआ पन्ने एने से कई ओमार्सिय क्षेत्र हो जली है और कई प्रमासित हमसे दूर करते हैं।
- मप्(शहर) में तुल्ले को पूर्वों का रस निलंकर महने से घारत अना बंद हो बता है
- हतमें के कुछ नहीं की सामी तेत में मूत लीगा और फिर इतमें तहतुने का रस पिताका क्षेत्र में अने पीजा। इससे बहुन के दर्द में आगम मिलेगा
- अगर अनको अस्तो में जलन की समस्य है, हो अगकी हर गत में काले तुलसों का अर्थ 2 बूंद ओखों में हरतना चहिए।
- उद्भारको अवस्त सिर दर्द की समस्य रहता है, तो द्राय खाने में बहुत है ते. उस कुटर्स का काब पिएँ।
- आर अपने मांगे में द्रांप आटे हैं, तो दुसरे के कुछ सूर्या पतियों के सत्तों के में मिलाकर कुँठ घेने से अपनी समस्य वाफी रह तक कम हो जाएंगे। यह उत्तर प्रकीय में भी उस्क्रेगों है।
- दाद, खुलती य लाग की इमंत्रमत में हुतती के अई को उस स्थन पर तामने से प्राप्त पहुंचा है।
- आए आर्था गुंह में संप्रतण हो गत हो, तो अवसी हर दिस हतमें के कुछ गत च्यापार खने चर्ताए।
- 10. दिन में के बाद 10-12 इसमी में, एते रखने में सनाव पोटान नहीं करता है।
- 11. कि लेटें को दिल की कमते हैं, उने भी कुमते पूर्व का निर्माण सेरन करने परिए।
- ा2. जिसके गुरे में पथरी हो वर्द हो, को रहद में गिलकर बुतकों के अमें का लगतार सेवन मास्त चाहिए। यह महीने में उसर देखना सुर हो जायेगा
- , 13, शहर, अदरक और एतमाँ को मिलकर बनाज गढ़ खात ग्रामहोद्य, दमा, क्या और सर्च में स्वपदापक है।
- 14 ज्यक, जी और इतसी के पनों को मिलावर कवारा गया कारा इंस्त्रिया में यहा देत है।
- बुलमी का अर्थ पैने में मुखर कम होता है।
- 16. ज़िने स्टाज़र्टी सा नाते हैं, उने तुताई की 10-12 पीओं स्रो एक प्रभारत में उन्नत्सर मेंना जाहर।



Article ID: 134

### **Green Manuring**

Mohd Shah Alam<sup>1\*</sup>, Jay Nath Patel<sup>1</sup>, Roop Kishor pachauri, Suraj Singh<sup>2</sup>, Himans a Tiwari

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#### INTRODUCTION

The physical structure and fertility of the soil are improved by ploughing the green plant tissues that have developed in the field or by introducing green plants with delicate twigs or leaves from the outside. It is the process of turning or ploughing disintegrating green plant tissues into the soil in order to increase the fertility of the soil. It is an environmentally friendly way to provide nutrients to plants and improve soil fertility. Along with inorganic fertiliser and bio-fertilizer, it is one of the key tenets of an integrated nutrient delivery system. Leguminous or non-leguminous trees and bushes can be cultivated on wastelands or bunds to use the vegetative sections for green manuring soils. The goal of green manuring is to supply the soil with N, the most crucial and lacking nutrient, by adding organic matter.

#### Types of green manuring:

There are two types of green manuring:

Green manuring in-situ: Green manuring in-situ is
the practise of growing green manure crops directly
in the field, either as a standatone crop or as an
intercrop with the primary crop and burying them
there E.g.: Sannhemp, Dhalcha, Pillipesara, Shervi,
Urd, Mung, Cowpea, Berseem, Senji etc.

#### These crops are sown as:

- ➤ Main crop
- Inter row sown crop
- On bare fallow, depending upon the soil and climatic conditions of the region

Green leaf manuring: It means incorporating fragile green branches and green leaves from shrubs and trees grown on bunds, wastelands, and neighboring forests into the soil. E.g.: Glyricidia, wild dhaicha, karani.



### Methods of Storage and Different Storage Structures

Vishnoo Omar<sup>1\*</sup>, Arvind Kumar<sup>2</sup>, Ravi Kumar Rajak<sup>3</sup>, Shiyam Kumar<sup>4</sup>, and Suraj Singh<sup>3</sup>

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#### INTRODUCTION

The storage of grain and seeds has been in practice as a basic need of human beings for the continuous food supply throughout the year. The problem of storage of food grain has been increasing fast day by day population increase. Food grains form an important part of the vegetarian Indian diet. Grain production has been steadily increasing due to advancement in production technology, but improper storage results in high losses in grains. According to World Bank Report, post-harvest losses in India amount to 12 to 16 million metric tons of food grains each year, an amount that the World Bank stipulates could feed one-third of India's poor. The monetary value of these losses amounts to more than Rs 50,000 crores per year 5. The mission of food security cannot be achieved only by growing more food grains; the essential part is to save the produce from any type of deterioration and waste and distribute it effectively among the population. The benefit of applying storage technology is a necessity to select a proper method of storage after measuring the condition of grain and seeds, micro environment. The storing of commodities for further uses was started at some point. Some of the storage structures are still in use in several parts of the world like clay pots underground pits mud bins, bamboo bins, woven basket, etc. to store stocks ranging from a few kilograms to several quintals. All populations need a food supply that should be free from insect, birds, rodents, fungi and mycotoxins, and harmful chemical residues. There are two types of storage needs: one at the time of harvesting and the other during dearth periods. The need for

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Methods of Storage and Different Storage Structures

storage has always arisen for distributing the food in deficit production area. In this way, grower, processor, transporters, warehouseman, government agencies, and private agencies must cooperate along each other to comply with these requirements. The post-harvest losses in India are estimated to be 12–16 million metric tons of food grains every year. The losses during storage are quantity losses and quality losses. Quantity losses occur when insects, rodents, mites, and birds consume the grain. Infestation causes reduced seed germination, increase in moisture and free fatty acid levels, and decrease in pH and protein contents, etc., resulting in total quality loss. Quality losses affect the economic value of the food grains, fetching low prices to farmers. The insect problem in tropics has been reported to be critical and related to the methods and conditions of storage structures. Government of India estimated on an average 10% of storage losses. Hall (1969) reported that there were

# Chapter - 4 Contract Famring

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To.

| Date: + 27/05/2022

. Mohd Shah Alum

Department of Agriculture

Sardar Vallabhbhai Patel University of Agriculture & Technology,

Modipuram Meerut- 250110, U.P., India.

### Letter of Acceptance

Dear.

I am happy to inform you that your paper entitled "Integrated Insect-Pest Management in Potato" authored by Mohd Shah Alam, Jay Nath Patel, Suraj Singh, Muzeev Ahmad and Khursheed Alam has been accepted for Oral presentation in the technical session of 24th Agricultural Scientists & Farmers' Congress on the topic of "Role & Importance of cluster-based FPO for rehabilitation of farmers' in the present era" which is being organized in the auditorium of BRIATS, Prayagraj during 28-29th May 2022.

Looking forward to welcome you on the occasion of 24th Agricultural Scientists & Farmers' Congress.

Your's sincerely

Dr. B.K. Davisedi

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Reg.Office:252A/4A, Om Gayatti Nagar,Teliargani,Prayagraf-211004,U.P.India Corres.Address:103/42, Motifai Nehru Road, (NearPrayagStation),Prayagraf-211002,U.P.India Extension wing: Bioved Krishi Prodyogiki Gram, Ram Van Gaman Road (Bhagotipur Chausaha) Post Shringverpur Prayagraf

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### ं प्रवेश परीक्षा परिणाम / Entrance Test Result उत्तर प्रदेश संयुक्त कृषि एवं प्रौद्योगिकी प्रवेश परीक्षा (यूपीकैटेट)-2023

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Department of Agriculture, Cooperation & Formers Welfare
Ministry of Agriculture & Formers Welfare
Covernment of India



#### CERTIFICATE

This is to certify that Mr. Suraj Singh, Village-Samaspur, Post-Nauha Naugaon, Dist-Kanpur Dehat, Uttar Pradesh has successfully completed 30-days training on Phytosanitary Inspection Training for Phytosanitary Service Agency and Phytosanitary Service Provider for Inspection of Plants / Plant Products & other Regulated Articles in Export' conducted at National Institute of Plant Health Management, Hyderabad from 18<sup>th</sup> November to 17<sup>th</sup> December, 2020.

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Dr. J. Alice R.P. Sujeatha Director (Plant Blosecurity)

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G. Jayalakshmi J.A.S. Director General

### Notice

All the faculty members are informed that the examination form of BSC Agriculture has been release by Chaudhary Charan Singh University. The last date is 24.04 2023. Maa Sakumbari University exam form will also be release soon so all the teachers have to submit the examination form with the given responsibility as below. Therefore, it is the responsibility of the teacher to collect the College fees of the students and also to see the library no dues.

S.N. Class Responsibility	Teacher Name
1 2 <sup>nd</sup> Semester	Dr. Jitendra, Dr. Arclina, Mr. Suraj Singh
2 4 <sup>th</sup> Semester	Dr. Vikrant, Mr. Mukul
3 6 <sup>th</sup> Semester	Dr. Anjali, Mr. Sachin, Rajkumar
4 8 <sup>th</sup> Semester	Mr. Abid

My

Dr Nayeem

→ HŌD

ol

The Dean, Agri.

SRC, M.Nagar

Through HOD

Sir

As per your direction ICAR accreditation of BSc Ag(Hon) program has to be done; So to complete ICAR Accreditation work of B.Sc. Ag (Hon.) program in the college the following committee have been proposed for your kind approval.

Name of committee	TEADING AT
CoS Committee	Name of Committee members
Time table Committee	Mr. Rajkumar and Dr. Vikrant Kumar
Laboratory Committee	Dr. Alljali Jakhar and Spraige
Stock Register/ other register. Committee	"". Aabid Ahmad and Sacking
Faculty requirement procedure:	and Singh and Mr. Vit
The chairman acc	Dr. Nayeem and Dr. Vikrant Kum.

Thanks and regards

Thanks and regards

Submitted to HOD for necessary action

Signature of Dry kran Kuman

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	4			Acres 1		N November			Page 2 of 🚆

Observations & Scores by HoD

(In case of HoD/s, scoring has to be made by the Head of Institution

	Factual Data	Remarks
	Teaching Performance	Tenelung Performance of Ray June
	Regularity and Punctuality	Regular Llew tuel time of cla
	Details of Course teaching plan, synopses of fectures and reading lists supplied to students	Regulars I Per formance of Ray Junes Regulars I Per Tuel Time of cla PDF nots 2 PPT etc.
i	Details of participation	Setisfactory Setisfactory.
5	Details of Innovations/ Contribution in Teaching	- Setisfactory
I)	Useafici	v. had.
**	Improvement of Professional Competence	hood'
8	Research Contributions in session	- setis fectory.
4)	Extension Work/ Community Service	Transfer the Te chnoulge
1 33	Protessional Organisations	v. rand' hood' - setis fectory.  Transfer the rechnology  3 existectory.  good'
	Assessment	good,
12	General Data	g009'

General Remarks of HoD Mr. Ray howar have Net qualify. Is best tracking mathodolog with Projector classes.

Tracking mathodolog with Projector classes.

Spp3 signment

General Remarks of Director	He is a good human being relation with other stable = hardworking	Marein govel
Observations /Order		
*		Chairman/Secretary

Feedback for teacher by Student & HoD (In case of HoD's, scoring has to be made by the Head of Institution)

¥43.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
	Subject Knowledge	. 200	8
	Decemby of Dress		&
			8
3	Facial Expressions		9
*0.00K	Quality of Voice		8
*	Confidence Level		0
49	Use of White Board/ Bluck Board	The second secon	9+1=10
Ţ	Use of ICT: Projector		8
S	Pre-Cluss preparation		7
	Skill of Porting Examples	- AAA (1944-194)	8
10	Generating Queries		
11	Class Discipline		7
12	Panctuality		6
	Generating Interest in Subject	*	8
13	The state of the s		8
14	Encouraging Participation	· · · · · · · · · · · · · · · · · · ·	8
15	Guidance and Advice		7
Τá			7
17	Outside Class Motivation		135 %
Noone of the Parket of the Par	% Score	70	135°% = 80 /,



# Shri Ram College Muzaffarnagar

## Hertificate

This is to certify the	at Dr/Mr/Ms	kaj k.vma	<b>%</b>		, al (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
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National Seminar on "A			,	•	
organised by Faculties of	Home Science & Ac	griculture, Shri R	am College, Muz	affarnagar held	on 25th - 26th
November 2022.	•	, , , , , , , , , , , , , , , , , , ,		ં જે . વ પૈ	

(Dr Ashok Kumar) Chairman (Dr Shweta Rathi)
Orgn. Secretary

(Dr Naveem Ali) Convertor



# **GMST** 2021

Organized by:



HI-TECH HORTICULTURAL SOCIETY, MEERUT (U.P.)



PRERNA FOUNDATION MEERUT (U.P.)

### In Collaboration with:



Society for Recent Development in Agriculture, Meerut (U.P.) India



College of Horticulture, SVPUA & T Meerut (U.P.) India



Shri Ram College, Muzaffarnagar



CSAUA&T, Kanpur (U.P.) India



SKRAU, Bikaner, Rajsthan, India



SVSU, Meerut, (U.P.) India

### International Conference Hybrid Mode

5<sup>th</sup> Global Meet on Science and Technology for Minimizing Innovation Cost & Time : To Make a Long Story Short

# Certificate

This is to Certify that Dr./Mr./Mrs./Ms
Assistant Professor, SRC, M. Nagar
participated / presented Lead paper / Invited lecture/ Oral /Poster paper entitled
during 5 <sup>th</sup> Global Meet on Science and Technology for Minimizing Innovation Cost & Time:
To Make a Long Story Short (GMST-2021) held during 08 th 09 th October, 2022 at
Swami Vivekanand Subharti University, Meerut.

Prof. Mahavir Singh Organizing Co- Chairman Prof. Bijendra Singh Organizing Chairman

## Indo - Japan International Seminar "Waste Water Management in India: Special Reference to Pilot Project of TSS Technology" at Shri Ram Group of Colleges, Muzaffarnagar, India

Certificate of Participation

Certified that Dr/ Mr/ Ms ......Raj. Kuman. participated in the International Seminar on "Waste Water Management in India: Special Reference to Pilot Project of TSS Technology at Shri Ram Group of Colleges, Muzaffarnagar" on 21st June 2023 at Shri Ram Group of Colleges, Muzaffarnagar (India). We wish him/her the best of success in his/her future endeavors.

(Hiroyuki Mihara)

Managing Director
Taisei Kougyou Ltd, Japan

(Dr S C Kน่ไรกreshtha)

Founder Chairman Shri Ram Group of Colleges, Muzaffarnagar, India

Organised by

Shri Ram Group of Colleges, Muzaffarnagar

Japan International Cooperation Agency (JICA) 🤲 Taisei Kougyou Co. Ltd.



\* E-Square INC.

\* Original Engineering Consultants Co. Ltd. 💢 🗀

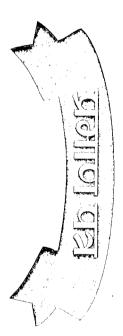




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सरदार वल्लभभाई पटेल कृषि एवं प्रोद्योगिक विश्वविद्यालय, मेरठ



प्रमाणित किया जाता है कि श्री/सुश्री...राज कुमार... ऽ/० और ठाकुर द्वास कक्षा- सरायक प्राक्षत

द्वारा कृषि विज्ञान केन्द्र , मुजफ्फरनगर—∏ के द्वारा ,श्री राम ग्रुप ऑफ कॉलेजेज , मुजफ्फरनगर में दिनांक 02.11.2022 को आयोजित

फसल अवशेष प्रबंधन परियोजना के अन्तर्गत जागरूकता कार्यक्रम में .... <u>में गिलिक विधि होर् गिकरोल अवशेष अधिक में अ</u>धिकारी के अन्तर्गत जागरूकता कार्यक्रम में .... <u>में गिलिक विधि होर् गिकरोल अवशेष</u> अतियोगिता में .

*रे*ं! <del>/ ..... स्थान प्राप्त किया है</del>।

हम इनके उज्जवल भविष्य की कामना करते है।

प्रभा शंकर तिवारी परियोजना अन्वेषक

आध्वीर सिंह प्राध्यापक एवं अध्यक्ष

#### Notice

e faculty members are informed that the examination form of BSC Agriculture has by Chaudhary Charan Singh University. The last date is 24.04.2023. Maa Sak rsity exam form will also be release soon so all the teachers have to submation form with the given responsibility as below. Therefore, it is the responsibility or to collect the College fees of the students and also to see the library no -dues.

<b>3</b>	and to see the fibrary no -dues.
Class Responsibility  2 <sup>nd</sup> Semester	Teacher Name  Dr. Jitendra, Dr. Archna, Mr. Suraj Singh
4 <sup>th</sup> Semester	DI: Vikrant, Mr. Mukul
6 <sup>th</sup> Semester 4	Dr. Anjali, Mr. Sachin, Rajkumar
8 <sup>th</sup> Semester	Mr. Abid
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The following decisions were taken.

- Mr. Raj kuman, Dr. Anjali Jhakar & Mr. Suraj, are added in the list of examination
- Raj Kumar will coordinate to Practical Examiner
- njul will look Office work
- vir. Ashid will look after the work related to TA/DA and other related work for examiner
- Dr. Archna Negl; Dr. Vikrant, Dr. Jilendra Kumar and Mr. Aabid will look students
- discipline maintain before such the examination and after examination.

  Seating arrangement flees collection, attendance will be carried out by respective room.
- Head office work, and examiner breakhistand, linch will be done by Mr. Multil Mod $_{
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- students who is absent within 15 minutes of start of exame. All the room incharge will take the attendance of their room and will make centaet, with From the commencement of the practical exam till the practical marks are uploaded
- online, viva vice and Exam copy and award list packaging, it will be the responsibility of There will be no duty in the examination thall at the time of subject specialists
- ubject expert can take help of any other teacher if required.
- the time of viva, the subject expert will be with the examiner, the test of the time the
- e of any problem, inform the Director immediately

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## चौ0 चरण सिंह विश्वविद्यालय, मेरठ

#### Ch. Charan Singh University, Meerut

पत्रांक : शोध/ 3000 विनांक :- 45000

#### विज्ञप्ति

यू०जी०जी० पीएच-डी० रेग्युलेशन, 2016 एवं चौ० चरण सिंह विश्वविद्यालय शोध अध्यादेश, 2022 में निहित प्रावधानों के अंतर्गत विषय-शस्य विज्ञान में पीएच-डी० में प्रवेश हेतु अर्ह अभ्यर्थियों से इस कार्यालय पत्र संख्या-शोध/1405 दिनांक 09.09.2022, शौध/2259 दिनांक 11.01.2023 एवं विज्ञान्त संख्या शोध/2520 दिनांक 09.02.2023 द्वारा ऑनलाइन आवेदनफार्म प्राप्त किये गये थे। अवमुक्त श्रेणी के अभ्यर्थियों को छोड़कर अन्य की प्रवेश परीक्षा विनांक 03 एवं 04.12.2022 को आयोजित कराई गयी थी। प्रवेश परीक्षा में निर्धारित कट ऑफ अंक प्राप्त करने वाले अभ्यर्थियों एवं अवमुक्त श्रेणी के अभ्यर्थियों के साक्षात्कार दिनांक 02.05.2023 को आयोजित कराये गये थे।

साक्षात्कार के उपरान्त भौ0 चरण सिंह विश्वविद्यालय, मेरठ में पीएच-डीं० में प्रवेश हेतु औपबन्धिक रूप से अर्ह पाये गर्य अध्यर्थियों की सूची इस पत्र के साथ संलग्न हैं।

सूची में सम्मिलित अध्यर्थियों से अपेक्षा की जाती हैं कि वह दिनांक 20.05.2023 तक विश्वविद्यालय के प्रशासिक भवन स्थित शोध विभाग में प्रातः 11.00 बजे से 12.00 बजे के मध्य अपने समस्त अभिलेखों यथा—आवंदन फार्म की प्रति, प्रवेश पत्र की प्रति, समस्त शैक्षिक अभिलेख एवं आरक्षण श्रेणी इत्यादि की स्व प्रमाणित छायाप्रति के साथ कोर्सवर्क हेतु निर्धारित फीस का ज्ञापट/ऑनलाइन पैमेंट रिसींट जमा करें। उन्नत तिथि तक अभिलेख व कोर्सवर्क फीस जमा न करने वाले अभ्यर्थियों का अभ्यर्थन निरस्त कर दिया जायेगा एवं उनके प्रवेश पर भविष्य में विचार नहीं किया जायेगा।

#### टिप्पणी-

- 01. प्रीपीएच-डीं0 कोर्सवर्क सम्बन्धी प्रमुख प्रावधान निम्नवत है :-
- 02. Each Student shall pay a sum of Rs. 25000/-only (Rs.12500/-in case of SC/ST candidates) as a fee for course work. (NEFT in favor of F.O. C.C.S. University, Meerut) A/C No. 50199470125 Bank Name-Indian Bank, Meerut University, Meerut, IFSC code No. IDIB000M690.
- 03. All admitted candidates shall undergo a course work for a minimum period of one semester of six month as prescribed by the University.
- o4. The Ph.D. program of the University is a regular program and the Course Work is essentially a regular course for which the candidates are required to attend minimum 75% classes.
- os. Since 75% attendance in course work is mandatory, the candidates employed in service of Government/Semi-Government/Educational Institute/Defense/Corporations etc.are required to submit Leave-Granted Certificate duly issued by their respective Employers.

प्रतिलिपि

01. इंगवितक सहायक कुलपति को मां० कुलपति जी के संज्ञानार्थ प्रेषित।

02. विभागाध्यक्ष / संकायाध्यक्ष, चौठ चरण सिंह विश्वविद्यालय, मेरठ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु.

:03. प्रभारी विश्वविद्यालय वेबसाइट ।

04. विश्वविद्यालय प्रेस प्रववता।

05. विस्वविद्यालय अधिकृत एजेसी को आवश्यक कार्यवाही हेत्।

कुलसम्बद



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#### Synopsis of research title of PhD student

Name of student- Mr. Raj Kumar

Major subject- Agronomy

# Outline of research problem: - "Effect on Paddy crop yield due to weed and Integrated Weed Management in paddy crop"

INTRODUCTION- Rice (Oryza sativa L.)belongs to poaceae family. It is the staple food for more than half of the world's population. In Asia, food security of more than 80 % of the population is entirely dependent on the rice produced (Kabir, 2006). Rice, being the most important cereal crop of India, is considered to be the backbone of Indian food security system. Globally, rice is cultivated in 154 million ha area with an annual production of around 426 million tonnes with average productivity of 2.76 t ha-1 (Jagtap et al., 2019). In India rice is grown in 44.86 million ha with production of 109.15 million tones with average productivity of 2390 kg ha-1. Uttar Pradesh has largest area of rice i.e. 5.81 million ha with production of 13.38 million tonnes.

In India, weeds are responsible for about 33% of total yield losses caused by pests, whereas insects and diseases are responsible for 26% and 20%, respectively. Weeds interfere with crops by competing for light, water, nutrients and space resulting in reduction of crop yield and quality. The yield reduction in any crop through weed competition depends on several factors such as weed flora and density, duration of competition, management practices and climatic conditions. Therefore, timely weed management is crucial for attaining optimal grain yield of a crop. (Anonymous, 2018). Water shortage is becoming severe in many ricegrowing areas in the world, the introduction of aerobic rice which means growing of high yielding rice in non-puddled and non-flooded aerobic soil with the support of external inputs like supplementary irrigation, manures and fertilizers; aerobic rice systems can reduce water use in rice production by as much as 50 per cent (Bouman, 2001). However, direct-seeded aerobic rice is subject to more severe weed infestation than transplanted lowland rice, because in aerobic rice systems weeds germinate simultaneously with rice, and there is no water layer to suppress weed growth. In aerobic rice weeds cause yield loss to an extent of 50-100% (Mishra and Singh, 2007); they are a major hurdle to broad adoption of aerobic rice. In such conditions integrated weed management offer most practical and cost effective means of reducing weed competitions. Therefore, to study the efficacy of some weed management practices on aerobic rice the present investigation was under taken.

#### Why we need IWM (Integrated weed Management):-

• One method of weed control may be effective and economical in a situation and it may not be so in other situation.

- No single herbicide is effective in controlling wide range of weed flora
- Continuous use of same herbicide creates resistance in escaped weed flora or causes shift in the flora.
- Continuous use of only one practice may result in some undesirable effects e.g. Rice, wheat cropping system Phalaris minor
- Only one method of weed control may lead to increase in population of particular weed.
- Indiscriminate herbicide use and its effects on the environment and human health.

Keeping in view of aforesaid facts and knowing the seriousness of problem the present study was undertaken with following objectives:

- 1. To study biology and control of problem weeds including aquatic and parasitic weeds.
- 2. To study integrated weed management techniques in paddy crop and estimation of yield loss due to weed in rice crop.
- 3. To transfer integrated weed management technologies on farmers' fields through my research.
- 4. To evaluate new herbicides and work out the residual effect on non-targeted organisms.
- 5. To study long-term residual and cumulative effects of herbicides.

#### **Review of Literature:**

Chauhan et al. (2012)Reported that the efficacy of bispyribac-sodium, fenoxaprop + ethoxysulfuron, and penoxsulam+cyhalofop was evaluated against barnyardgrass, Chinese sprangletop, junglerice, and southern crabgrass when applied at four-, six-, and eight-leaf stages. When applied at the four-leaf stage, bispyribac-sodium provided greater than 97% control of barnyardgrass, junglerice, and southern crabgrass.

Kaur et al.(2015) Field experiment was conducted during Kharif 2009 and 2010 to study the bio-efficacy of different herbicides in direct-seeded rice. Significantly lower number of grass weeds was observed with application of pendimethalin as compared with other pre-emergence herbicides. Sequential application of pendimethalin and bispyribac recorded the lowest weed biomass and 100% weed control efficiency.

Singh et al.(2019)Reprted that Pendimethalin was applied as preemergence at 0.25, 0.5, 1.0 and 2.0 kg/ha and cyhalofop-butyl + penoxsulam mixture was sprayed as post-emergence (PoE) (at 25 days after sowing) at 32.5, 65, 135 and 270 g/ha with the help of knapsack sprayer and control pots were maintained for each species and herbicides. Application of pendimethalin at 1.0 kg/ ha resulted in excellent control of L. chinensis and D. aegyptium, whereas at 2.0 kg/ha application rate killed all the weeds.

Saravanane et al. (2020) Field experiments were carried out during 2015- 16 and 2016-17 at Pandit Jawaharlal Nehru College of Agriculture & Research Institute, and stated that The grassy weeds dominated the weed flora, with 86.12% relative density of Echinochloa colona (L) Link. The sequential application of pendimethalin and bispyribac-sodium herbicides (1000 fb 25 g/ha) with a manual weeding in 40 days after sowing (DAS) reduced total weed density (14.4 /m2) and biomass (37 g/m2), resulted in better rice growth (plant height and tillers/m2), yield parameters (panicle weight and 1000 grain weight) and higher rice grain yield (3.86 t/ha).

#### **MATERIALS & METHODS**

#### **Details of experiment**

- Site of Experiment ccsu Meerut
- Crop Rice (Oryza sativa L.)
- Replications 4
- Design RBD (Randomized Block Design)
- Total no. of plots -32
- Gross plot size 4x5.4 = 21.6 m2
- Spacing(Row to Row) 20 cm
- Variety Pant-24 or other

#### **Treatment details**

S. N.	Herbicide/Treatment	details Rate of application (g/ha	Time of application
T1	Partially Weedy check		1 Hand weeding at 60 DAS
T2	2 Hand weeding		30 & 60 DAS
T3	Brown manuring		
T4	Pendimethaline fb H.W.	1000g	Pre-emergence fb HW 30 DAS
T5	Pendimethaline <i>fb</i> Byspyribac Sodium	1000g <i>fb</i> 25g	Pre-emergence & Post emergence (25-30 DAS)
Т6	Pendimethaline <i>fb</i> (Fenoxaprop+ethoxysulfuron Tank Mix)	1000g <i>fb</i> 167g+18g	Pre-emergence & Post DAS)
Т8	Pendimethaline 10.1% WP ) Tank Mix]	1000g <i>fb</i> 4g	Pre-emergence & Post DAS)

#### **Detail of Herbicides-**

Name of	Chemical	Mode of Action	Trade	Active	<b>Target weed</b>
Herbicide	group		Name	::ingredient	
Pendimethalin	Dinitroanilines	Microtubule assembly inhibitors	Stomp	30% EC	Annual grasses & Broadleaf weed
Bispyribac- sodium	Benzoates	Inhibition of Branched- chain amino acid synthesis	Nominee gold	10%SC	Grasses, sedge, broadleaf weeds
Ethoxysulfuron	Sulfonylureas	Inhibition of acetolactate synthase (ALS)	Sunrice	15%WDG	Sedge and broad leaf
Fenoxaprop	Phenoxy propionates	ACCase inhibition in fatty acid biosynthesis	Rice star	6.9EC	Grassy weeds
Penoxsulam	Triazolopyrim idine	Inhibition of acetolactate synthase (ALS)	Granite	21.7%SC	Grasses,sedge,broad leaf weeds
Cyhalofop	Phenoxy propionates	Acetyl CoA carboxylasre (ACCase) inhibitor	Clincher	10%EC	Grassy weeds
(Metsulfuron Methyl 10.1%+Chlorimu ron Ethyl 10.1% WP)	Sulfonylureas	Inhibition of acetolactate synthase (ALS)	Almix	20%WP	Sedge, broadleaf weeds

#### References

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# SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20.....-20....

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18- Participation in Corporat	le Life :- Pica	se give a shor	rt account of	your contrib	ution to :	becerok	done Attach	ed (Page Nt
(i) College/Univers	ity/Institution	•		-		9.00	done Avech	-
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19- Professional Organization								Î
20- Assessment:- Steps take	n for the eval	uation of the	course progr	amme taught	•			0 1 0000
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Observations & Scores by HoD

	Factual Data	Remarks
Mr. seerchild ballion	Traching Performance	
	Regularity and Policioality	Rosel Price & Direct
	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	Regular & Punctuell PDF nots a PPT Supplu to studienty.
i	Details of participation	set is fectoria.
3	Details of Insovations/ Contribution in Teaching	V. Effectiv
)	Uscofica	ged
7	Improvement of Professional Competence	Company of the Compan
S	Research Contributions in session	eyilut
·)	Extension Work/ Community Service	hwd.
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1)	Assessment	Settsfectoria
2	General Data	Setisfectors
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ner	al Remarks of HoD Dr. Jitcurra	v. helffull an department
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General Remarks of Direc	lor :	Regular & Teatful for having or good rul	Hardworke Completes ood subsice others with	ing worker of known	ledge.	Signat	= R
Observations /Order					, s		
· · · · · · · · · · · · · · · · · · ·			a.	months on the state of the stat		Chairman/Secret	

Feedback for teacher by Student & HoD (In case of HoD's, scoring has to be made by the Head of Institution)

Proposed in the second	Parameters of Feedback	Feedback by Students (10)	Feedback by RoD (10)
	Sabject Knowledge		8
	Occursy of Dress		8
***************************************	Lacial Expressions	agent C seminately square and a seminately s	7
	Quality of Voice	And the second s	0
	Confidence Level		9
,	Use of White Board' Black Board	***************************************	9
······································	Use of ICT: Projector		7
errorrorrorrorrorrorrorrorrorrorrorrorro	Pre-Class preparation		8
	Skill of Potting Examples		8
, ()	Generating Queries		<b>\$</b>
WX.77	Class Discipline		8 .
1	Punctuality		8
2	Generating Interest in Subject		8
3		and the state of t	9.
4	Encouraging Participation		9
lŠ	Guidance and Advice		8
Ιά	Inside Class Motivation		9.
17	Outside Class Motivation	. %	139 %
COMMON DEPORTS	% Score		817.

#### 12. Detail of Participation

- I. Evaluated the Internal Examination copies
- II. Setting of Question paper for internal Examination
  - Setting of Question paper for External/University Examination
- III. Assignments were given to the students in all the courses taught during odd/even semester.
- IV. Conduct internal examination
  - Invigilator duties in internal Examination
  - Invigilator duties in External/ University Examination.
  - Invigilator duty in PET exam in 2022.
- V. Evaluation of Ph.D. Thesis of other university

#### 13. Detail of Innovation/contribution in teaching, during the year

- I. Curriculum designing for M.Sc. Ag. Soil Science course
- ii) Teaching methodologies Used:
- Used various ICT tool- like projector, e- study materials
- Teaching by discussion, Question/Answer session/Debate/Quiz
- iii) Practical's were conducted in every courses in laboratory and field
- iv) Evaluated students on the basis of internal written examination, Assignment and regularity.
- v) Preparation and circulation of Proper notes or study material to the students for each course taught during odd/even semester
  - Publish 2- Book Chapter
- vi) Conducted Remedial classes for slow learner
- Mentoring & counseling of students for better career opportunities after graduation
- vii) Any other:
  - Coordinator of 1<sup>st</sup> year students
  - Mentor of 15 students from each 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students
  - Examination Controller for conducting Internal Examination of even semester of session 2022-23
  - Education visit of student in KisanMela at SVPUA&T Meerut
  - Education visit of student in KisanMela at Chitoda, Muzaffarnagar.
  - · Education visit of student in Animal & Agriculture Fair in Muzaffarnagar
  - Organizing secretary in conducted National seminar on Advance approaches for formulation of healthy & Hygiene milk products

18. Participation in Corporate Life:- Please give a short account of your contribution to:

- i) College/University/Institution:
  - 1. Co-convener of Academics Committee at college level:
  - Actively contributed towards Academics activities at the college level:Designing Academic calendar
  - Uploading of documents for Submission of AQAR of session 2020-21
  - Collecting the evidences from all departments and preparation of AQAR template for the session 2021-22
  - 2. Member of ICLD at college level
  - 3. Member of Green Campus Audit Committee
  - 4. Member of Board of Studies
- ii) Co-curricular activities:

Actively Participated in conducting various guest lecture, seminars conducted by the department at department level.

- iii) Enrichment of campus life (hostels, sports, games, cultural activities)
  Supported the students for preparation of cultural activities for cultural programs at departmental or college level
- iv) Students welfare and discipline
  - Maintaining students discipline during Internal Examination and campus
  - Performing Patrolling duty to maintain discipline among the students in the campus

#### 20. Assessment:- Steps taken for the evaluation of the course programme taught

Conducted written examination for internal evaluation, Assign 05 assignments to each student in each course and monitoring the regularity of students on the basis of attendance.

Written Exam: 25 marks Assignment: 05 marks Attendance: 10

#### 21. General Data:- State brief assessment of your performance indicating

#### i) Achievements:

- Active member of Academics Committee: Worked for submission of AQAR-2021, Preparation of Academic calendar, etc.
- Member in Discipline committee in organizing International Seminar at department level
- Examination controller for Internal Examination.



#### DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR

(9)



				INDIVIDUAL Dr. Jitend					
Day	Sec.	9:15-10:00 AM	10:00-10:45 AM	10:45-11:30 AM	11:30AM-12:15 PM	12:15-1:00 PM	1:00 PM - 1:40 PM	01:40 PM - 02:25PM	02:25PM- 03:10 PM
Monday	A		Soil Science 1 <sup>st</sup> sem.		Problematic soil 7 <sup>th</sup> sem.			Soil Science (I	
	В						ت تنابر	1 <sup>st</sup> sem.	
Tuesday	A				Problematic soil 7 <sup>th</sup> sem.		Problematic soil (Lab		il (Lab.)
114.17	В		Soil Science 1 <sup>st</sup> sem.					7 <sup>th</sup> sem.	
Wednesday	A	Soil fertility 5 <sup>th</sup> sem.			Soil Science 1st sem.			Soil fertility (L	ab)
	В			Soil fertility 5 <sup>th</sup> sem.	1 Selli.			5 <sup>th</sup> sem.	**
Thursday	A			J Sem.					
	В	Microbiology 3 <sup>rd</sup> sem.		Soil Science 1 <sup>st</sup> sem.				Soil fertility (La	ab)
Friday	A	Microbiology 3 <sup>rd</sup> sem.		Soil fertility 5 <sup>th</sup> sem.				5 <sup>th</sup> sem.	0
The P	В			J Selli.	PCP			4	
Saturday	A				3 <sup>rd</sup> sem.			W 35	
	В			Soil fertility 5 <sup>th</sup> sem.				Soil Science (La 1 <sup>st</sup> sem.	ıb.)

Prepared by Dr. Vikrant Kumar

Checked by HOD Dr. Nayeem Rajput

Approved by Dean Agriculture



# DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR

				BSc Agri	IE TA	BLE,	Eve	n Ser	ч .	
Day	Sem.	Sec.	9:15-10:00 AM	10:00-10:45 AM	10:45-11:30 AM	11:30AM-12:15 PM	12:15-01:00 PM	01:00 01:40	01:40 PM - 02:25PM	02:25- 03:10
Monday		Α	Crop Physiology (MM)	Entomology I (SS)	Pathology (A.N.)	Economics (AJ) ·	Bio-Chemistry (JS)		Food Proc. (Lab.)	
	II	В	Entomology I (SS)	Crop Physiology (MM)	Plant Bio-che (J.S.)	Pathology	Economies (AJ)	Lunch	Extension	(Lab.) / \
Tuesday		A	Crop Physiology (MM)	Food Proc. (V.K)		gy (Lab.) N.)	Veg. spices (A.A.)		Organic Farming (Lab.) (RK)	
	in the second se		Food Proc. (V.K)	Crop Physiology (MM)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Organic Farming (RK)	<b>4</b>	Entomology I (Lab.) (SS)	
Wednesday	II	A	Food Proc. (V.K)	Extension (SKS)	(A	ics (Lab.) J)	Plant Bio-che (J.S.)		Veg. spices (Lab.) (AA)	
		В	Plant Patho. (A.N.)	Food Proc. (V.K)	Extension (SKS) ✓		Pathology (Lab.) (A.N.)		Crop Physiol (MN	
Thursday	п	A	Entomology I (SS)	Plant Bio-che (J.S.)		on (Lab.) (SS)	Organic Farming (RK)		Plant Patho. (A.N.)	Extension (SKS)
		В	Veg spices (AA)	Entomology I (SS)	Plant Bio-che (J.S.)	Plant Bio-che (J.S.)	Plant Patho. (A.N.)	Lunch	Organie Farn (RK)	
Friday			A Pathology Veg spices (A.N.) (AA)		Plant Bio-Chem. (Lab.) (JS)		Economics (AJ)		Entomology I (Lab.) (SS)	
			Veg. spices (A.A.)	Pathology (A.N.)	Extension Veg spices (SKS) (AA			wy.commonweit.	Plant Bio-che (J.S.)	Veg. spice (A.A.)
Saturday	II	A	Pathology (A.N.)	Ethics (SKS)	Plant Bio-che (J.S.)	Economics (A.J.)	Pathology (A.N.)		Crop Physio (M)	
		В	Ethics (SKS)	Pathology (A.N.)	Veg spices (AA)	Bio-Chemi (J:	stry (Lab.) S)		Food Proc. (Lab.) (N.R)	

Dr. N. - Dr. Nayeem, Dr. V.K. - Dr. Vikrant Kumar, AJ - Dr. Anjali Jakhar, AN- Dr. Archana Negi, JS- Dr. Jitendra Singh AA- Mr. Aabid ahmad, MM- Mr. Mukul Motla, SKS- Mr. Sachin Kumar Sahu, SS- Mr. Suraj Singh, RK - Mr. Raj Kumar,



#### DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR



(9)

# TIME TABLE

(B.Sc Agriculture IVth Semester: 2022-2023)

Even ser

Day	Sem.	Sec.	9:15-10:00 AM	10:00-10:45 AM	10:45-11:30 AM	11:30AM-12:15 PM	12:15-1:00 PM	1:00 PM -1:40 PM	01:40 PM - 02:25PM	02:25PM- 03:10 PM	
Monday	IV	A	Renew. Energy (V.K.)	Crop Pro. (R.K.)	Ornamental (A.A.)	Plant Biotech. (S.S.)	Ornamental (A.A.)		Metrology (Lab.)		
***************************************		В	Crop Pro. (R.K.)	Renew. Energy (V.K.)		ro. (Lab.) R.K.)	Plant Biotech. (S.S.)		Ornamental	Crops (Lab.)	
Tuesday	IV	(N.R.)		Plant Biotech. (S.S.)	Crop Pro. (Lab.) (R.K.)		Prob. Soil (J.S.)		(A.A.) Renew. Energy Lab.		
			В	Plant Biotech. (S.S.)	Poultry Pro. (N.R.)	(8	ess (Lab.)	Plant Biotech. (S.S.)	Lunch	Ornamental (A.A.)	Prob. Soil (J.S.)
Wednesday	ïV	A	Poultry Pro. (N.R.)	Seed Tecl	a. (Lab.)	, Ornamental C	Props (Lab.)		Business (Lab.) (SKS)		
		В	Ornamental (A.A.)	Poultry Pro. (N.R.)	Ornamental (A.A.)	Practical Crop	Pro. (Lab.)	-	Poultry I	ro. (Lab.) .R.)	
Thursday	IV	Α		Practical Crop Pro. (Lab.) (R.K.)		Poultry Pro. (Lab.) (N.R.)		***	Prob. Soil (Lab.) (J.S.)		
1100		В	Seed Ted (M.)		(A.A.)  Metrology (R.K.)	Agri. Info	o. (Lab)		Renew. E	nergy Lab. .K.)	
Friday	IV	Α	Practical Cro (R.)		Seed Tech (M.M.)	Plant Biotech. (S.S.)	Metrology (R.K.)	Lunch	Agri. Ir	.fo. (Lab) '.K.)	
		В	Plant Biote (S.:		Ornamental (A.A.)	Seed Tech (M.M.)	Prob. Soil (J.S.)		Metrology (Lab.) (R.K.)		
Saturday	IV	A	Plant Biote (S.5		Seed Tech (M.M.)	Agri. Info. (V.K.)	Business (SKS)		Prob. Soil (J.S.)	Ornamental (A.A.)	
***************************************		В	Prob. So (J.S		Business (SKS)	Seed Tech (M.M.)	Agri. Info. (V.K.)		Practical Co	op Pro. (Lab.)	

Dr. N. – Dr. Nayeem, Dr. V.K. – Dr. Vikrant Kumar, AJ – Dr. Anjali Jakhar, AN- Dr. Archana Negi, JS- Dr. Jitendra Singh AA- Mr. Aabid ahmad, MM- Mr. Mukul Motla, SKS- Mr. Sachin Kumar Sahu, SS- Mr. Suraj Singh, RK - Mr. Raj Kumar



### DEPARTMENT OF AGRICULTURE SHRI RAM COLLEGE, MUZAFFARNAGAR

(9)



A000				(B.Sc	Agriculture VI <sup>th</sup>	FABL Semester: 2022-2	E (023) E (10	u Se		999999999999999999999999999999999999999									
Day	Sem.	Sec.	9:15-10:00 AM	10:00-10:45 AM	10:45-11:30 AM	11:30AM-12:15 PM	12:15-1:00	1:00 PM - 1:40 PM	01:40 PM -	02:25PM									
Monday		A	Ag. Finance (Lab.) Post Har.		Extensio	Extension (Lab.)		02:25PM 03:10 Pl Seed Tech. (Lab.)											
	VI	В	Extens	ion (Lab.) K.S.)	Seed Tech.	(S.K Dairy (	Lab.)		()	1.M.) ar. (Lab.)									
Tuesday	VI	Α	Ag. Finance (A.J.)	Extension (S.K.S.)	ELP	Seed Tech.		(V.K.) Dairy (Lab.)											
		В	Plant Patho. (A.N.)	Ag. Finance (A.J.)	(J.S.) Seed Tech.	(M.M.)	(A.N.) Extension	Lunch	(N.R.)										
Wednesday	VI	A	Farming (A.J.)	Plant Patho. (A.N.)	(M.M.) ELP	Seed Tech.	(S.K.S.) Extension		Post Har. (Lab.) (V.K.) ELP ELP										
000000000000000000000000000000000000000		В	ELP (J.S.)	Farming (A.J.)	(S.S.) Post Har.	(M.M.) Extension	(S.K.S.) ELP	- Annual Control Contr											
Thursday	VI	A	oomman Land	ho. (Lab.)	(V.K.) / Seed Tech.	(S.K.S.)	(A.J.) ELP		(S.S.) Ag. Finance	(S.S.)									
		В	Ag. Finar	ice (Lab.)	ELP	Seed Tech.	(S.S.) ELP	600g	(A.J.)	Ag. Finance									
r.i.i			* **	.,,			* **	* **			A	Post Har.	Farming '	(J.S.) Dairy	(M.M.) Plant Patho.	(A.J.) ELP		ELP	(A.J.) Plant Patho.
Friday	VI	В	(V.K.)   ELP	(A.J.) Post Har.	(N.R.) ELP	(A.N.) Dairy	(S.S.) Post Har.	Lunch	(J.S.)	(A.N.)									
Saturday		A	(J.S.) Post Har.	(V.K.) Dairy (Lab.)	(S.S.) Farming	(N.R.) ELP	(V,K.)		ELP (A.A.)	ELP (A.J.)									
	VI	В	(V.K.) Farming	(N.R.) ELP	(A.J.)	(R.K.)	ELP (A.A.)		ELP (A.A.)	Plant Patho. (A.N.)									
	***************************************		(A.J.)	(R.K.)	Dairy (Lab.) (N.R.)	Plant Patho. (A.N.)		- Control Control	Farming (A.J.)	ELP (J.S.)									

Dr. N. - Dr. Nayeem, Dr. V.K. - Dr. Vikrant Kumar, AJ - Dr. Anjali Jakhar, AN- Dr. Archana Negi, JS- Dr. Jitendra Singh AA- Mr. Aabid ahmad, MM- Mr. Mukul Motla, SKS- Mr. Sachin Kumar Sahu, SS- Mr. Suraj Singh, RK - Mr. Raj Kumar





#### UTTARANCHAL UNIVERSITY

(Established vide Uttaranchal University Act, 2012) (Uttarakhand Act No. 11 of 2013) Arcadia Grant, Post Chandanwari, Prem Nagar, Dehradun, Uttarakhand Phone: +91-7249977773, 0135-2770333



#### TOP SECRET

Ref. No.: UU/EC/2023/E/580

Date: 21/03/2023

To, Dr. Jitendra Singh, Asst. Prof. Faculty of Agriculture, Motherhood University, Roorkee, Uttarakhand.9634225528

निर्देशः

 लिफाफे के मध्य में टांका लगाकर गाठ सील करें, तािक प्रश्न-पत्र निकाला न जा सकें।

 क्रमांक 3 पर निर्दिष्ट संख्या में अलग–अलग प्रश्न–पत्र निर्मित किये जाये। फोटो प्रति/कार्बन लगा प्रश्न–पत्र न भेजा जाय।

Dear Sir/Madam,

I am directed by the Vice-Chancellor to invite you to act as a Paper Setter in the following subject for the Examination of 2022-23.

1- Programme

B.Sc. (Hons.) Agriculture -- II Sem

2- Course

Soil and Water Conservation Engineering

(AET-121)

3- No. of papers to be set:

2 (Two)

The question paper should be fairly distributed over the whole course of study and not concentrated to any one or a few portions only. It should be a balanced paper neither hard nor lengthy. It should not be out of SYLLABI. Also kindly ensure that the scheme of marking is in accordance with the SYLLABI and if the SYLLABI is silent, the marks allotted to a question should be fair and total marks allotted to the value of Maximum Marks of the paper. Further question papers should be designed based on bloom's taxonomy and must attain all course outcomes of particular course with higher level of bloom's taxonomy.

You are requested to ensure top confidentiality and take all necessary measures to avoid leakage of question paper.

The examination shall commence w.e.f. May 2023. You are, therefore requested to set the paper within a week of the receipt of this letter. This may kindly be treated as most urgent. In case, any of your relative is appearing in the Examination concerned please return the documents and do not set the paper under reference.

Your Code Number is <u>580</u>. Kindly mention Code Number on every letter that you send to us. This will facilitate replication and implementation for your own instruction at this end.

Sincerely yours,

Controller of Examination



#### UTTARANCHAŁ UNIVERSITY

(Established vide Uttaranchal University Act, 2012) (Uttarakhand Act No. 11 of 2013) Arcadia Grant, Post Chandanwari, Prem Nagar, Dehradun, Uttarakhand Phone: +91-7249977773, 0135-2770333



Date: 21/03/2023

#### TOP SECRET

Ref. No.: UU/EC/2023/E/615

To,
Dr. Jitendra Singh,
Assistant Prof.,
Dept. of Agriculture,
Shri Ram Group of Colleges
Muzaffarnagar 251001, UP India,

निर्देश:

 लिफाफे के मध्य में टांका लगाकर गाठ सील करें, ताकि प्रश्न-पत्र निकाला न जा सकें।

 क्रमांक 3 पर निर्दिष्ट संख्या में अलग–अलग प्रश्न–पत्र निर्मित किये जाये। फोटो प्रति/कार्बन लगा प्रश्न–पत्र न भेजा जाय।

Dear Sir/Madam,

I am directed by the Vice-Chancellor to invite you to act as a Paper Setter in the following subject for the Examination of 2022-23.

1- Programme

M.Sc. Agriculture Agronomy -

II Sem

2- Course

: Analytical Techniques and Instrumental Methods in Soil and Plant Analysis

(MSAGSS-501)

3- No. of papers to be set:

2 (Two)

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2 <sup>nd</sup>	A	Dr. Vikrant Kumar	9793729323	vkvk6096@gmail.com	126 121 y
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Dr. Ashok Kumar Dept. of Agriculture

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- Participated at the International Conference GMSIT for minimizing innovation cost and time: To make a long story short, organised by Hi- tech horticultural society, Meerut, U.P. held during 8<sup>th</sup> - 9<sup>th</sup> October, 2022 at Swami VivekanandSubharti University, Meerut, U.P.
- Participated in the International Seminar on Waste Water Management in India: Special reference to Pilot Project of TSS Technology at Shri Ram Group of Colleges, Muzaffarnagar on 21<sup>st</sup> June, 2023, at Shri Ram Group of Colleges, Muzaffarnagar, U.P.
- Organising, Participating and Presented a paper at the International Seminar on Advance Approaches for Formulation of Healthy and Hygienic Milk Productorganised by Faculty of Agriculture and Home Science, Shri Ram College, Muzaffarnagar held on 25<sup>th</sup> – 26<sup>th</sup> November, 2022, at Shri Ram Group of Colleges, Muzaffarnagar, U.P.
- Participated in 10 Days Faculty Development Programme (FDP) on Zero Budget Natural Farming (ZBNF): Innovations and Best Practices for Promoting Sustainable Agriculture, organised by School of Agriculture (SOA), Uttaranchal University, Dehradun, Uttarakhand, held from 6<sup>th</sup> – 15<sup>th</sup> June, 2023.

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#### Research Paper Published

- 1) Rohit, **Jitendra Singh** and Archana Negi. **(2022)** Character Association in M4 Micro Mutants in Wheat (*Triticumaestivum* L.). *Current Journal of Applied Science and Technology*, 41(48): 123-128.
- 2) Rohit, **Jitendrasingh** and Archana Negi. **(2022)** Path Analysis in M4 Micro Mutants in Wheat. *International Journal of Microbiology Research* , 14(3): 1995-1997
- 3) Archana Negi, **Jitendra Singh**, Pradeep Kumar **(2023)** Genetic variability among the strains of *Xanthomonasaxonopodis*pv. *citri* through rep-pcr. *Agricultural Research Journal*, 60(1): 59-65

#### **Book Chapter Published**

- 1) **Jitendra Singh**, Archana Negi, and Rohit**(2022)** Organic Farming for sustainable Agriculture in India In Prof Dr. Sanjay Swami (Ed.), Advances in Organic Farming, 1<sup>st</sup> Ed.,pp. 72-83. Scripown Publication
- 2) Archana Negi and **Jitendra Singh(2022)** Role of Biological Control in Plant Disease Management In A. R. Chandrabhan (Ed.), Research Trends and Innovations in Plant Pathology, Volume 4, pp. 1-19. Integrated Publication ISBN 978-93-93502-81-0



#### Current Journal of Applied Science and Technology

Volume 41, Issue 48, Page 123-128, 2022; Article no.CJAST.94809 ISSN: 2457-1024 (Past name: British Journal of Applied Science & Technology, Past ISSN: 2231-0843, NLM ID: 101664541)

# Character Association in M<sub>4</sub> Micro Mutants in Wheat (Triticum aestivum L.)

# Rohit <sup>a</sup>, Jitendra Singh <sup>b\*</sup> and Archana Negi <sup>b</sup>

<sup>a</sup> Department of Plant Breeding and Genetics, R. B. S. College, Bichpuri, Agra, India. Department of Agriculture, Shri Ram Group of College, Muzaffamagar, India.

#### Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

#### Article Information

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Original Research Article

Received: 21/10/2022 Accepted: 24/12/2022 Published: 29/12/2022

#### **ABSTRACT**

To determine the association among yield related traits on grain yield of mutant wheat, an experiment was conducted at the Agricultural Research Farm of R. B. S. College, Bichpuri, Agra (Uttar Pradesh). The application of physical mutagens such as X-rays, gamma rays, and neutrons, as well as chemical mutagens, for inducing variation is well set up. Induced mutations have been applied to the Joint offer of FAO/IAEA Division of Nuclear Methods in Agriculture, more than 1800 cultivars acquired either as direct mutants or derived from their crosses have been released globally in 50 countries. The correlation of twelve characters in wheat induced mutants was investigated. The number of spikelets per spike and spike length both had a significant and positive correlation with yield per plant. Selection for traits that are positively correlated with yield per plant could lead to increased yield. This suggests that selecting for these traits may be more effective in maximising grain yield.

Keywords: Correlation analysis; mutant wheat; selection; physical mutagens.

\*Corresponding author: E-mail: jitu1040@gmail.com;

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#### International Journal of Microbiology Research

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#### Research Article PATH ANALYSIS IN M4 MICRO MUTANTS IN WHEAT

#### ROHIT<sup>1</sup>, JITENDRA SINGH<sup>2</sup> AND ARCHANA NEGI<sup>2</sup>

<sup>1</sup>Department of Plant Breeding & Genetics, R.B.S. College, Bichpuri, Dr Bhimrao Ambedkar University, Agra, 282004, India

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Abstract- Information on the mutual association of traits is important for effective selection in plant breeding program. An experiment was conducted at R. B. S. College, Bichpuri, Agra to evaluate the direct and indirect effects of yield related traits on grain yield. Path coefficients were studied for twelve characters in six desired mutants of wheat. Days to 50% flowering, exerted high order of positive direct effects towards yield per plant followed by plant height at flag leaf stage and germination percentage. Days to germination made positive contribution towards yield per plant, spike length and weight of 500 seeds. This implies the true relationship between these traits and grain yield; therefore, due attention should be given on such traits during selection for further improvement.

Keywords- Path coefficients, Mutation, Correlation, Selection

Citation: Rohit, et al., (2022) Path Analysis in M4 Micro Mutants in Wheat. International Journal of Microbiology Research, ISSN: 0975-5276 & E-ISSN: 0975-9174, Volume 14,

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#### Introduction

Bread wheat (Triticum aestivum L.) is one of the most important food crops of the world, and continuous improvement in its productivity will be required to keep pace with global population growth. Induced mutations are of considerable values for comprehending evolution and accelerating the process of plant improvement. Radical changes in agriculture techniques and human needs and their prejudices as well, force the plant breeder to employ all available methods, including mutation for the improvement of cultivated plants.

The correlation coefficient simply indicates degree of association among the characters, contributing towards economic yield and it has been quite useful as basis of selection. However, it does not provide measure of casual relationship existing among variables. Selection based on simple correlation coefficient without considering interactions among yield and yield components may mislead the breeders to reach their main breeding purpose [1,2]. Path analysis can be used to calculate the quantitative impact on grain yield through direct and indirect effects caused by one or the other component traits [3,4]. It provides an effective means of partitioning correlation coefficients into direct and indirect effects and illuminates the relationship in a more meaningful way. Path analysis thus permits a critical examination of specific factors that produce a given correlation and can be successfully employed in formulating an effective selection strategy [5].

#### Material and Methods

Present investigation was carried out at Agricultural Research Farm of R.B.S.College, Bichpuri, Agra. The experimental material used in the present investigation comprised of six M4 mutants of HD 2329 variety of Triticum aestivum L. induced by gamma rays. Dwarf plant, Semi-dwarf plant, long spike, Tall plant, Long seed and High tillering plants were selected as desirable mutants from the M3 generation. Three varieties viz., UP 2338, HD 2329 and RR 21 were used as a check. The experiments were laid out in a simple Randomized Block Design with three replications. Each of the treatment accommodated four rows of three meter length with a spacing of 9x22.5 cm. Seeds were shown in the field with spacing of row to row was kept 5 cm. All the agronomical packages and practices were applied to raise healthy crop.

Observations were recorded both on the plot basis and single plant basis. For single plant observations ten competitive plants from each plot were randomly selected. Average of these plants in respect to different plant characters was taken for statistical analysis. The data were recorded from the randomly selected plant from the field for various quantitative characters viz., days to germination, germination percentage, plant height at flag leaf stage, days to 50% flowering, seedling injury, spike length, numbers of effective tillers, number of seeds per spikelet, number of seeds per spike, number of spikelets per spike, weight of 500 seeds and yield per plant. Path coefficient of different characters were estimated according to Wright (1921) [6] and Dewey and Lu (1959) [7].

#### **Results and Discussion**

With the help of path coefficient analysis, correlation coefficients of all the characters with yield per plant were partitioned into the direct and indirect effects.

#### Direct effect

Days to 50% flowering (0.791), exerted high order of positive direct effects towards yield per plant followed by height at flag leaf stage (0.784) and germination percentage (0.752).

Days to germination, number of seeds per spikelet, number of seeds per spike and weight of 500 seeds also made direct positive contribution towards yield per plant, but in low order. However, number of spikelets per spike exerted high direct negative contribution towards yield per plant. Seedling injury, spike length and number of effective tillers exerted lower direct negative contribution towards yield per plant.

#### Indirect effects

Days to germination made positive contribution towards yield per plant, spike length and weight of 500 seeds followed by high positive contribution via number of spikelets per spike and number of seeds per spike. However, it made high negative contribution towards days to 50% flowering, height at flag leaf stage, seedling injury and germination percentage.

# GENETIC VARIABILITY AMONG THE STRAINS OF Xanthomonas axonopodis PV. CITRI THROUGH REP-PCR

#### Archana Negi\*, Jitendra Singh and Pradeep Kumar

Department of Plant Pathology, College of Agriculture, Govind Ballabh Pant University of Agriculture & Technology, Pantnagar - 263145, Uttarakhand

#### **ABSTRACT**

Citrus canker is one of the most devastating citrus diseases in the world. The Phytopathogen responsible for this disease is *Xanthomonas axonopodis* pv. *citri* (*Xac*). Thirty isolates of *Xac* were isolated from three districts of Uttarakhand state and out of which 13 isolates were selected for genetic diversity study. Pathogenicity test was conducted to identify the pathogen and various morphological and biochemical tests were conducted for characterization of bacterial isolates. PCR based asseys i.e. Repetitive DNA polymerase chain reaction (rep-PCR) fingerprinting using repetitive extragenic palindromic (rep) and enterobacterial repetitive intergenic consensus (ERIC) and BOX primers were used to study genetic diversity. All the 13 isolates differentiated into 13 distinct banding patterns (haplotypes) by rep-PCR technique. The generated banding patterns by the rep-PCR based assays were compared among all the *Xac* isolates. UPGMA cluster analysis of the fingerprints generated by BOX, REP AND ERIC primers revealed considerable diversity among the isolates collected from different areas of Uttarakhand. Cluster analysis grouped the isolates into two main clusters (A & B) with 28 per cent similarity. The results on molecular characterization revealed that the isolates collected from different locations of Uttarakhand were found diversified, due to different geographic location of isolates.

**Keywords:** BOX, ERIC, PCR, REP, Repetitive DNA polymerase chain reaction (rep-PCR), *Xanthomonas axonopodis* pv. *citri* (*Xac*)

103.91.80.194 on dated 31-Jul-2023 itrus fruits are very important in terms of international processed fruits. The present day citrus is delectable, juicy, seedless and is of great nutritional significance as well (Khan et al., 1992). The canker disease is the major biotic constraint for its cultivation. It is caused by Xanthomonas axonopodis pv. citri (Xac). The disease is of great economic importance all over the citrus growing area of the world including India, which adversely affects plant health and fruit development. It has played a significant role in causing extensive losses in nurseries and orchards (Gottwald and Irey, 2007). The disease is believed to have originated in South East Asia, is extremely persistent when it becomes established in an area. It was first reported in India from the state of Punjab (Luthraand Sattar, 1942). Since then its occurrence was recorded in all the citrus growing states of the country (Das, 2003). It become endemic in India and occurs in all the citrus growing areas. A number of different phenotypic and genotypic methods are presently being employed for microbial identification and classification. Generally DNA-based methods are emerging as the more reliable, simple and inexpensive ways to identify and classify microbes. A simple and efficient DNA fingerprinting method based

on Polymerase Chain reaction (PCR) using primers has been developed. Fingerprinting methods used to distinguish between strains within target species are easy to perform and data interpretation is relatively straight forward. Frank et al. (1994) used DNA primers corresponding to conserved motifs in bacterial repetitive (REP, ERIC and BOX) elements to show that REP, ERIC and BOX-like DNA sequences are widely distributed in phytopathogenic Xanthomonas and Pseudomonas strains. REP, ERIC and BOX-PCR (collectively known as rep-PCR) were used to generate genomic fingerprints of a variety of Xanthomonas and Pseudomonas isolates and to identify pathovars and strains that were previously not distinguishable by other classification methods. The present investigation is made to study genetic diversity within 13 differents strains of Xanthomonas axonopodis pv. citri isolated from 13 different locations of three districts of Uttarakhand, through REP-PCR genomic fingerprinting with REP, ERIC and BOX primers. All the isolates were identified and further characterized on the basis of pathogenecity, morphological and biochemical

#### **MATERIALS AND METHODS**

The present study was carried out in the laboratory. The laboratory experiments were conducted at the Department of Plant Pathology, College of Agriculture,

<sup>\*</sup>Corresponding author : archanagbpuat.patho@gmail.com Date of receipt: 20.01.2022, Date of acceptance: 28.02.2023

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**VOLUME - 1** 



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## Chapter - 6

## Organic Farming for Sustainable Agriculture in India

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#### Abstract

In the post-independence era, India's most important challenge has been the production of adequate food for the growing population. Thus, the more productive species are used in irrigation, fertilizer, or pesticides. This combination of highly productive production technologies has helped the country to have more food as well as to contribute to soil health concerns, pollution, pesticide poisoning, and sustainable agricultural production. Therefore, scientists and policymakers are re-examining agricultural practices that rely heavily on organic matter instead of over-utilizing chemical fertilizers and pesticides. Organic farming can provide quality food without compromising on soil health and the environment; however, the concern is whether large-scale farming will produce enough food for most Indians. Certified organic products that include all kinds of food products including basmati rice, pulses, honey, tea, spices, coffee, oil seeds, fruits, grains, herbal medicines, and its value-added products are produced in India. Non-edible organic products include cotton, clothing, cosmetics, active food products, body care products, and similar products. The production of these crops and natural products is being reviewed in terms of sustainable agriculture in northern India.

Keywords: Organic Farming, Soil Properties, soil fertility, organic nutrients and organic crops

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## Chapter - 1

## Role of Biological Control in Plant Disease Management

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## Chapter - 1

## Role of Biological Control in Plant Disease Management

Archana Negi and Jitendra Singh

#### Abstract

Fungicides or nematicides use have been dominated the plant protection strategies over the years. But due to its excessive use and harmful effects on environment and even humans, there is a need of practicing biological control for plant disease management. Biological control is a natural control that maintains a natural balance between plant pathogenic microbes and beneficial microbes by checking the growth of harmful plant pathogens by exploiting beneficial biological control agents or antagonist against them and thus managing the plant diseases. Biological control refers to the suppression of one organism (or pest) by another organism (antagonist). Biological control operates through various mode of actions like: Competition, Parasitism, Antibiosis, Lytic enzymes and induced systemic resistance (ISR). Most commonly exploited biocontrol agents are *Trichoderma*, *Pseudomonas* and *Bacillus* used against a number of Plant diseases.

**Keywords:** Biological control, antagonist, biocontrol agents, competition, parasitism, ISR, *Trichoderma*, *Pseudomonas*, plant diseases, antibiosis

#### Introduction

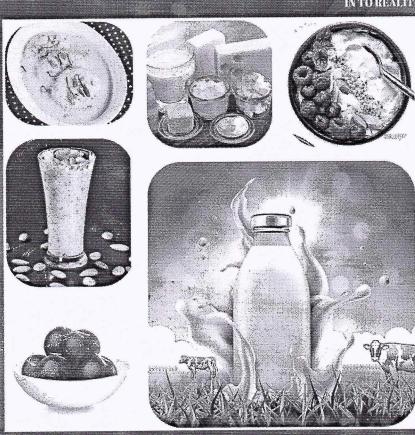
Food security in the developing country like India is a serious concern and has assumed global proportions in the last few years, with a need for urgent action. Maintaining the quality of food and increased food production to meet the requirements of the rising human population is the need of an hour. The responsibility of protecting crops from pests and diseases is rising with increase in human population and its need. Plant pests and diseases are the major contributors to biotic stresses that limit realization of yield potential of crop-plants. The annual losses of crop produce in India are estimated at 25% (NAAS, 2008). There are various types of direct and indirect losses caused by plant diseases, that includes reduced quality and quantity of crop produce, increased cost of production, threat to animal health and environment, limiting the varieties of crop/varieties grown, loss of

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**Session: 2022-23** 

S. No.	Committee Name	Convener	Co-Convener	Members
1.	Academics Committee	Dr. Vinit Kumar Sharma	Dr. Jitendra Kumar,	Dr Prerna Mittal, Mr Nishant Rathi, Mr Parmod Kumar, Dr. Pooja Tomar, Dr Rishabh Bhardwaj, Dr Saurabh Mittal, Mr. Vivek Tyagi, Mr Ravi Gautam, Mohd Nayeem, Dr Vipin Kumar Saini, Dr Shweta Rathi, Dr Manoj Dhiman, Ms. Anju Tyagi Dr. Ashfaq AliJ, Mr. Sagar Sukla, Mr. Vivek Kumar
2.	Admission Counselling Committee	Mrs. Neetu Singh	Mr. Amit Tyagi	Dr. Pramod Sharma, Dr. Reetu Pundir, Ms. Shruti Mittal, Dr. Nayeem, Mr. Manyank, Ms. Shivani Berman, Ms. Shivani Sharma, Mr. Sharad Chaudhary Ms. Anupma Mishra, Ms. Rohini Saini, Ms. Anu, Ms Isha Arora,
3.	Alumni Committee	Dr. Manoj Mittal	Mr. Vivek Tyagi	Ms, Shruti Dhiman, Ms. Kehkasha Mirza, Ms. Ritu Garg, Ms. Dolly, Ms. Rohini Singh, Ms. Anjali Goel, Ms. Manisha, Ms. Sakshi Tyagi, Ms. Sofia Ansari, Ms Alina, Ms Kehkasha Mirza, Ms Garima, Mr. Rajeev Rawal
4.	Anti-Ragging Committee	Dr. Prerna Mittal	Mr. Rahul Gautam	Mr. Navneet Singh Chauhan, Mr. Raj Deep Sharawat, Mr. Rajnikant, Ms. Rishu Jain, Mr. Bhupendra Kumar,
5.	Activity Club including Collabrative Events under MoU's	Dr. Shweta Rathi	Dr. Rahul Arya	Ms Manisha, Ms. Minakshi Kakran, Ms. Anjali Goel, Mrs. Pooja Raghuvanshi, Mr. Himanshu Hora, Ms. Tina Agarwal
6.	Cultural Activities Committee	Ms. Shruti Mittal	Ms. Shalini sharma	Mrs.Neetu Singh (Advisor), Ms. Binnu Pundir, Ms. Payal Pundir, Ms. Isha Arora, Ms. Tina Agarwal, Ms. Ritu Garg, Mr. Sharad Chaudhary, Ms Nidhi, Ms. Shikha, Ms. Shivani Berman, Ms. Mudra Mittal, Ms. Shaivani Sharma, Mr. Suraj Singh, Ms. Anjali Jakhar Ms. Sakshi Tyagi, Ms. Anjali Goel, Ms Sharmistha,
7.	Code of Conduct Committee	Mr. Bhupendra Kumar	Mr. Sandeep Kumar	Ms.Shalu Panwar, Ms. Zehra Husaini, Dr Abdul Azeej Khan, Mr Amardeep, Mr Tarun, Mr Prashant, Mr Samrat, Mr Vishwadeep, Dr Reetu Pundir
8.	Examination Committee	Mr. Vikas Kumar	Dr. Manoj Mittal	Mr Sachin , Ms Shalu Panwar, Ms. Zehra Husaini, Ms. Shivani Pal, Ms. Ruby Poswal, Mrs. Annu Nayak, Ms. Minakshi Kakran, Mr. Rahul Gautam, Ms. Rishu Jain, Mr. Sharad Chaudhary, Mr. Himanshu Verma, Ms. Nivedita, Dr. M.S. Khan, Mr. Abhishek, Ms. Anika, Ms. Zeba Tahir, Ms. Nivedita , Mr. Ankush Rawal, Mr. Mohd Salman, Mr Abid,

19.			Ms. Shivani	
	Media Committee	Dr. Ravi Gautam	Berman,	Mr. Mayank, Ms. Kehkasha Mirza, Mr. Vivek, Mr. Mukul Motla, Mr. Mukesh Kumar, Ms. Aysha Ms. Kajal Mavi, Ms. Garima
20.	Proctorial Board & Discipline Committee	Dr. Pramod Kumar ( Phy Edu)	Mr. Bhupendra Kumar	Mr. Amardeep (D.C.P), Mr. Sandeep Kumar, Mr. Tarun Kumar, Mr. Prashant Kulshrestha Mr. Vishwadeep, Mr. Pankaj Sharma, Mr. Sandeep Rathi, Mr. Vikas Tyagi, Mr. Sachin Kumar, Mr. Pankaj Kaushik, Mr. Samrat, Ms Pooja Raghuvanshi,
21.	Research Development & Publications Committee	Dr. Vipin Kumar Saini	Mr. Jugmehar Gautam	Mr. Raj Kumar, Mr. Pankaj Sharma, Mr. Vivek Tyagi Mr. Ajit, Dr. Vikrant Kumar, Dr. Reetu Pundir, Mohd Danish, Ms. Poonam Sharma,
22.	Scholarship Committee with Minority/ OBC/ SC/ST Cells	Mr. Amit Tyagi	Mr. Vikas Tyagi (General),	Mohd. Aabid ahmad(Minority), Mr. Sachin Kumar Saini( OBC), Mr. Rajeev Rawal,(SC/ST) Mr. Ankit Kumar (member) Dr. Abdul Azeez Khan, (member) Dr. Pramod Kumar (CA), (member) Ms. Rohini Saini, Ms. Anupma Mishra, Ms. Nidhi, Ms. Sikha Mr. Mukesh, Mr. Abid Ahmad, Ms. Shivani Sharma, Ms. Kehkasha Mirza Ms. Ruby Poswal, Ms. Alina
23.	Sports committee	Mr. Pramod Kumar	Dr. Abdul Azeez Khan	Mr. Amardeep (D.C.P), Dr. Abdul Azeez, Mr. Sandeep Kumar, Mr. Tarun Kumar, Mr. Prashant Kulshrestha Mr. Vishwadeep, Mr. Vikas Kumar, Mr. Samrat, Ms. Dolly, Mr. Rajeev Rawal, Ms. Payal Pundir, Ms. Kajal Mavi, Mr. Ajit, Mr. Mayank Saini, Mr. Manyank, Mohd Salman, Dr Anjali Jakhar, Dr Vikrant, Mr. Vikas Kumar
24.	Training & placement committee	Mohd. Yusuf	Mr. Atul Kumar	Mr. Rajeev Rawal, Mr. Sachin Kumar, Mr Vishwas, Ms. Alina, Mr Ankush Rawal, Mr Sagar Shukla, Mr. Mukesh Kumar
25.	Stock/ Maintenance Committee	Mr. Praveen Kumar	Mr. Pankaj Kaushik	Ms. Ritu Garg, Mr. Sachin Sahu, Mr. Subohd (Lab), Mr. B.P. Verma, Mr. Mayank Saini, Ms. Shruti Mittal, Ms. Naina Bansal
26.	Transport Committee	Mr. Ajay Chauhan	Mr. Amit Bhatnagar	Mr Sidhant Garg, Mr Raj Kumar, Ms. Shruti Dhiman, Ms. Anupma Mishra,
27.	Rover Ranger Committee	Mr. Praveen Kumar	Ms. Shivani Pal	Mr. Mukul Motla, Ms. Nishi Thakur, Ms. Poonam Sharma, Ms. Anu Nayak
28.	HR Committee	Dr. Pankaj Kumar Sharma	Mrs. Anu Nayak	Ms Nishi Thakur, Ms Pooja Pal, Mr Vikas Kumar, Ms Prakshi, Mr Sagar Shukla, Ms Vishakha Sharma, Ms Nivedita, Zeba Tahir, Anika, Abhishek,
29.	ICLD,	Dr Ashok Kumar	Mr Atul Kumar	Ms Hanshika Jain, Ms Isha Arora, Ms Shalini Mishra, Mr Rajdeep Sharawat, Dr Jitendra Singh, Ms. Himanshu Hora
30.	Centre for Innovation/ Fabrication & Entrepreneurshi p Development/	Mrs. Kanupriya/ Dr Rahul Arya	Dr. Nayeem Ali,	Dr Pramod Kumar (Comp Appl), Dr Vikrant, Dr M S Khan, Ms. Darshika Sharma, Ms. Mudra Mittal, Dr. Shweta Rathi.

	IPR/ ED/			
31.	Incubation Cell			
31.	Best Practice Monitoring Team/ Green Campus Audit Committee and waste management committee	Mr. Vivek Tyagi	Mr. Sandeep Rathi	Mr. Rajdeep Saharawat(rain water harvesting), Mr. Arjun Singh(waste water treatment), Dr. Jitendra Singh(greenery), Mr. Vikas Tyagi(waste management) Dr. Manoj Dhiman( campus beautification), Mr. Himanshu Verma(Audit report), Dr. Rajnikant( e-waste), Mr Vivek Ahlavat(Solar energy) Mr. Amit Tyagi(TSE) Ms Hanshika Jain,
32.	Library Committee	Dr. Vikrant	Mr. Anit Chaudhary	Ms. Kehkasha Mirza, Mr. Sachin Kumar, Ms. Minakshi Kakran, Ms. Sharmistha, Mr. B.P.Verma, Mr Sunil Kumar, Ms. Garima
33.	Industry Academic Integration & Skill Development Cell	Dr. Ashok Kumar	Mr. Vivek Tyagi	Mr. Rajnikant, Mohd Yusuf, Ms. Shivani Berman, Ms. Rishu Jain, Mr. Mayank Saini
34.	Online Education & LMS Cell	Mr. Vishwas Gaur	Mr. Navneet Singh Chauhan	Mr Sanjay Kant, Rahul Gautam, Mr Sachin, Mr. Jugmehar Gautam, Ms. Vishakha Sharma,
35.	Teachers Reskilling Cell	Dr. Vipin Kumar Saini	Mr. Bhanupratap	Mr. Jagmehar Gautam,Mr. Himanshu Verma,Mr. Vishwas Gaur,Mohd Yusuf
36.	Institutional Development Planning Cell	Dr. Nishant Rathi	Dr. Archana Negi	Dr. Abdul Azeej Khan, Mr. Sagar Shukla, Dr. M.S. Khan, Ms Aysha Gaur, Mr. Kapil Dhiman
37.	Indian Language, Culture & Art Cell	Dr. Manoj Dhiman	Ms. Anjali Jakhar	Mr Ajit, Mr. B.P. Verma, Ms. Ruby Poswal, Ms. Archana Negi.
38.	International Student Assistance Cell	Mr. Kapil Dhiman	Mr. Ajay Chauhan	Ms Shalini Mishra, Ms. Nidhi, Mr. Amit Bhatnagar, Mr. Tushar Mittal, Mr. Shardd Kaushik, Mr Deepak
39.	Handicapped Support &	Mr. Mukul Motla	Ms. Hanshika Jain	Mr. Sidhant Garg, Ms Manisha, Ms. Shikha

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	Scheme			
	Publicity Cell			
40.	Mentoring & Psychological Cell	Mrs. Binnu Pundir	Ms Isha Arora	Ms. Shalu Panwar, Ms Zehra Husaini, Ms Darshika Sharma, Ms. Pooja Raghuvanshi, Ms. Anju Tyagi, Mr. Ajay Kumar, Mr. Suraj Singh
41.	NEP- 2020 Implementation Committee	Dr. Saurabh Mittal	Dr. Pooja Tomar	Dr. MS Khan, Ms Shweta Garg, Mr. Sidhant Garg, Dr. Rahul Arya, Mr. Ankur Ruhilla
42.	Academic Council		All Dean/HoD	Dr Prerna Mittal, Mr Nishant Rathi, Mr Parmod Kumar, Dr. Pooja Tomar, Dr. Vinit Kumar Sharma Dr Rishabh Bhardwaj, Dr Saurabh Mittal, Mr Ravi Gautam, Mohd Nayeem, Dr Vipin Kumar Saini, Dr Shweta Rathi, Dr Manoj Dhiman, Ms. Anju Tyagi Dr Manoj Mittal
43.	Management committee		All Dean/HoD	Dr Prerna Mittal, Mr Nishant Rathi, Mr Parmod Kumar, Dr. Pooja Tomar, Dr. Vinit Kumar Sharma Dr Rishabh Bhardwaj, Dr Saurabh Mittal, Mr Ravi Gautam, Mohd Nayeem, Dr Vipin Kumar Saini, Dr Shweta Rathi, Dr Manoj Dhiman, Ms. Anju Tyagi Ms Prakshi, Ms Mudra Mittal, Ms Pooja Pal,
44.	Board of Studies	Deptt Head	Subject's faculty	Dr Nayeem, Mr Mukul Motla, Dr Vikrant, Mr Suraj ingh, Mr Raj Kumar, Dr Jitendra Singh one expert from each subject

Note: These Committees are including the members of Shri Ram College, Muzaffarnagar Engg, Pharmacy, Poly, Architech, College members may be added for showing these on the group level.

## SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20.....-20....

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Note: Supporting briefs may be reported as attachment wherever required or submitted on separate note sheets.

## Observations & Scores by HoD

(In case of HoD/s, scoring has to be made by the Head of Institution

	Factual Data	. Remarks
***************************************	Teaching Performance	
<u>}</u>	Regularity and Poinctuality	Very gesel per formance in class.
Š	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	Regular 2 Paul tesal Time inclaire leading phowledge with PAFa PPT transfer.
, ii	Details of participation	Dr. Augali participated in allas
5	Details of Innovations/ Contribution in Teaching	Set steelory.
Ú	Use of ICT	PPT, PDF, Croop.
Ţ	Improvement of Professional Competence	highly Se +1> feetory.
8	Research Contributions in session	07Research keper fublish
S)	Extension Work/Community Service	heod.
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12	General Data	Govel

General Remarks of HoD or Anjali very helf-full ledy in all Meparhundal work and set's feetory work of Teaching, by Stylens.

General Remarks of D	Prouledoble _ le Maving Di quo d quate	hardworking.	functions & Benevery y with 8twdents. Signature
Observations /Order			
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E.		·	Chairman/Sucretary



Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

Y. No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
}	Subject Knowledge		8
**	Decemey of Oress		9
·····	Cacial Expressions		9
	Quality of Voice	and the second s	9
\$	Confidence Level	100 S	Ø
<b>b</b>	Use of White Board/ Black Board	3	9
***	Use of ICT! Projector		8
8	Pre-Cluss preparation	Control of the Contro	9
1)	Skill of Putting Examples		9
10	Gunerating Queries	in the state of th	9
11	Class Discipling		8
12	Penetuality		9
13	Generating Interest in Subject .	And the second s	9
	Encouraging Participation		8
14	Guidance and Advice		7
15			<b>オ</b>
ló	Inside Class Motivation		.8
17	Outside Class Motivation	%	193%
alexandria de la companya de la comp	% Score	90,000 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	= 84 ½

### **Work Progress and Achievements**

Name: Dr. Anjali Jakhar

Designation: Assistant Professor

Department of: Agriculture

Duration: 20/04/2022 to Till Now

- > Working on Project entitled "Establishment of Roof Water Harvesting Unit Under Experiential Learning Program Under ICAR" for Experiential learning program.
- > Research paper published on "Roof Water Harvesting: A Case Study" in Progressive Agriculture.
- > Research paper published on "Effect of dactylorhizahatagirea (Salep orchid) on quality and standard of Ice-Cream" in *International Journal of Agricultural Sciences*.
- > Research paper published on "Studies of SRC bio pesticide to control the insect infestation in vegetables" in *International Journal of Agricultural Sciences*.
- > Research paper published on "Formulation of mixed fruits wine and its quality assessment during Storage" in *International Journal of Agricultural Sciences*.
- > Evaluation and compiling the result of practical.

#### Other work as per direction of HOD/Dean

- > Work on Lecture Plan and Time Table.
- > Work on Students Centric Methods Yoga, Quiz and Athletic.
- Work on Mentor and Mentee Work.
- ➤ Work on Workshop (Awareness Program and Short Term Program on Entrepreneur Development Programme).
- > Work on Class Seminar and Presentation.
- > Work on Seminar/Workshop Attended as Participants.
- ➤ Work on Mechanism of Internal Assessment (Unit Test, Students Performance, Date Sheet, Scheduling, Question Paper, Mark Display).
- > External Examination duty.
- > Schedule a course on development of competitive skill for agriculture students for SRC, Muzaffarnagar
- > Cultural Programme committee Coordinator.
- ➤ Assign Practical Exam Controller& Coordinator.
- > Assign Internal Exam Controller& Coordinator.
- ➤ Bihar student Coordinate in the department (Batch 2022-2023).
- Student visit KVK Chittora.
- Rangoli competition on the occasion of Durga Puja.

- > Student visit KVK Chittora.
- > Rangoli competition on the occasion of Durga Puja.
- ➤ Work on NAAC file
- Work on ICAR Accreditation
- > Organize Farewell cum Get Together Party.
- > Earth day Poster, Essay Writing & Debate Competition.

Dr. Anjali Jakhar Assistant Professor

Submitted to HOD, Agriculture

Forwarded by HOD

Submitted to Dean, Agriculture for Approval Please

Approved by

Dean, Agriculture

## Acceptance Letter (CCFS-2021-22)

## Greetings & Welcome in CCFS- 2022

To,

Contributors/ Participants

Dear Dr./Madam,

We are pleased to inform you that your abstract entitled "CLIMATE CHANGE AND FOOD SECURITY IN INDIA" by Dr. Anjali Jakhar has been accepted for publication as (Oral/Poster Presentation) in conference abstract/ proceedings book in upcoming 1<sup>st</sup> International Conference Organize by Mangalayatan University Jabalpur, Madhya Pradesh and Society for World Environment, Food and Technology (SWEFT), Meerut (U.P.) India on "Contribution of Agriculture for Challenges and Opportunity of Food Security till 2030" scheduled to be held on October 15-16, 2022 at Conference Hall, Mangalayatan University Jabalpur (MUJ), M. P. India.

It is further requested that kindly fill in the registration form and submit the registration fee as earliest via online/ bank deposit. You are directed to send the payment receipt to the email: ccfsconference2022@gmail.com.

We look forward to see your presentation in the Conference physically or virtually.

Enclosure: Registration Form (CCFS-2022)

With Regards & Thanks



(Dr. Ratnesh Kumar)

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Email: ccfsconference2022@gmail.com Cell No. 9554708626, 9149332851 Convener: Dr. Iti Gontia-Mishra

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Society for Recent Development in Agriculture Website: www.progressiveagriculture.in

#### **ROOF WATER HARVESTING: A CASE STUDY**

Vikrant Kumar<sup>1</sup>, M. Nayeem Ali<sup>2</sup>, Ashok Kumar<sup>3</sup> Anjali Jakhar<sup>4</sup> and Mukul<sup>5</sup>

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### **Abstract**

The study was conducted at Shri Ram college, Muzaffarnagar-251001 located at 29° 28'N, 77°41'E at 272 meters MSL. The climate of Muzaffarnagar is subtropical characterized by much hot summer and cooler winter. The average temperature of the area is 24.2°C which range from 45°C to 0.9 °C. The average rainfall of the area is 929 mm. The dries month is November with 8 mm of rain and highest rainfall in July with an average 261.4 mm. Shri Ram College is spread in more than 5.7 hac lands. For this study the roof of block B having 894.14 square meter area was selected. Based on last thirty years rainfall data (maximum 40 mm rain in a day) a rain water collecting well of 36 m³ was manufactured to store water. The study indicates that from 894.14 m² catchment area 35.78 m³ water is generated which required almost 36 m³ well size for storing the water. The 9 feet depth of collecting well with 6 feet diameter was found appropriate if 40 mm rain in a day occurs. To drain out 36 m³ water stored on the roof of 894.14 m² area 7 pipes of 10cm diameter required. The study also found that 3x4 feet size two siltation tank may be sufficient before the rain water enters into the collecting well. The 6 inch (15 cm) perforated pipe was found suitable to percolate the water into ground.

Keywords: Well, Siltation Tank, Rainfall, Catchment Area, Water Potential etc.

#### Introduction

Water is essential for all life and used in many different ways, it is also a part of the larger ecosystem in which the reproduction of the bio diversity depends. Fresh water scarcity is not limited to the arid climate regions only; but in areas with good supply the access of safe water is becoming critical problem. Lack of water is caused by low water storage capacity, low infiltration, larger inter annual and annual fluctuations of precipitation and high evaporation demand (2).

In India water harvesting means utilizing the erratic monsoon rain for raising good crops in dry tracks and conserve the excess runoff water for drinking and for recharging purposes (2).

Rain water harvesting (RWH) is a technology that can be used for collecting and storing rainwater from rooftops, open land surfaces using simple storage utensils such as tanks, pits and cistern. Harvested rainwater is a renewable source of clean water that is ideal for multiple uses. The greater attractions of a Rain Water Harvesting system (RWHS) are its accessibility, low cost and easy maintenance features at the household level. Rain water harvesting enhances water supply by mitigating the temporal and spatial variability of rainfall and provide water for basic human needs and other small activities. Rainwater harvesting (RWH) could be the most sustainable solution to be included in the urban water management system (3).

Therefore it is urgent to find a sustainable solution that could alter the usage of groundwater. Rainwater harvesting would be one of the most conceivable and viable solutions to release the pressure

### RESEARCH PAPER

# Studies of SRC bio pesticide to control the insect infestation in vegetables

Mohd Nayeem Ali\*, Vikrant Kumar and Anjali Jakhar Department of Agriculture, Shri Ram College, Muzaffarnagar (U.P.) India (Email: mohdnayeemdt@gmail.com)

Abstract: Biopesticides are products formulated from naturally occurring organisms such as fungi, plant and bacteria that are pathogenic or toxic to insect pests. Advantages to these products are that they have low environmental risk, low risk to non-target organisms including mammals and beneficial insects, and can help reduce resistance to pesticides when used in an integrated pest management programme. Biopesticides were experimented on different vegetable crops from different farmers, in which it was found that Biopesticides destroys the insects that damage the crops, also increases the yield. Biopasticidase was used on brinjal, tomato and chili, in which along with pest control, the yield of brinjal increased by 8.5%, the yield of tomato by 7.3% and the yield of chili was increased by 8.08%.

Key Words: SRC bio pesticide, Insect infestation, Vegetables

View Point Article: Ali, Mohd Nayeem, Kumar, Vikrant and Jakhar, Anjali (2023). Studies of SRC bio pesticide to control the insect infestation in vegetables. *Internat. J. agric. Sci.*, 19 (1): 301-304, DOI:10.15740/HAS/IJAS/19.1/301-304. Copyright@2023: Hind Agri-Horticultural Society.

Article History: Received: 19.09.2022; Revised: 22.11.2022; Accepted: 23.12.2022

### Introduction

An organic insecticide (SRC Bio-Pestcide) was prepared by the Department of Agriculture, Shri Ram College to reduce the side effect of chemicals being used in agriculture. It is well known fact that in today's time, the use of chemicals is increasing which has side effect on human body. These poisonous substances enter inside human digestion system which leads to develop dangerous diseases. Beneficial micro-organisms living inside and outside of soil are destroyed which is important for crop production. Besides, cost of production of crop is increased many fold. Due to high cost of production farmers are getting less benefit. Slowly and slowly

framers comes under pressure of loan and commit suicide. To overcome this problems we need a pesticide which is low cost, having low residual effect and can increase yield. The indigenous bio-pesticide can be a better tool for controlling the insect and improving the benefit of farmers. Keeping this in mind department of Agriculture has taken initiatives and prepared the bio-pesticide which is popularly called SRC Bio-Pesticide).

#### Material used:

The following materials were used for preparation of SRC Bio Pesticide. (1) Parthenium grass -1. 5 kg (2) Neem leaves -5 kg (3) Cow urine- 500 g,(4) Reetha powder- 50 g (5) 10 days old Lassi -3 kg.

<sup>\*</sup>Author for correspondence:

## **Notice**

All the students are informed you that Agriculture department conducta certificate course on Advance technical training in floriculture on 08/05/2023 to 08/08/2023. The students who want to join this training will complete your registration process to Mr. Aabid Ahmad.

Date-04/05/2023

HOD

### RESEARCH PAPER

# Effect of *Dactylorhiza hatagirea* (Salep orchid) on quality and standard of Ice-Cream

Mohd Nayeem Ali\*, Vikrant Kumar and Anjali Jakhar Department of Agriculture, Shri Ram College, Muzaffarnagar (U.P.) India (Email: mohdnayeemdt@gmail.com)

Abstract: The study examined the various quality parameters test of prepared ice-cream and cost analysis. Five Ice-Cream samples were found rich in nutritive value, antioxidant, antimicrobial, antifungal, sensory quality and economically cost. The determined and collected data of various parameters were analyzed by Random Block Design and data checked out at p<0.05 level. This study concentrates on Experimental treatment of Ice-Cream manufactured methods which was subjected to organolaptic properties. As per sampling, *Dactylorhiza hatagirea* powder was added at the rate of 0%, 1%, 2%, 3% and 4% levels, respectively and determined the physical, chemical, antioxidant, rheological properties and cost increases as added levels was increase in herbal Ice-Cream. The result revealed that best score in sensory characteristics of *Dactylorhiza hatagirea* powder included Ice-Cream were @ 3% followed by 1%, 2% and 4% used of herbs, respectively in selected Ice-Cream and also control Ice-Cream sample. The study was carried out to find the functional properties quantitative of *Dactylorhiza hatagirea* powder incorporated Ice-Cream. These herbs were used in making improvement and enhancement of medicinal value in Ice-Cream.

Key Words: Dactylorhiza hatagirea, Salep orchid, Functional, Sensory, Texture profile, DPPH, FRAP

View Point Article: Ali, Mohd Nayeem, Kumar, Vikrant and Jakhar, Anjali (2023). Effect of *Dactylorhiza hatagirea* (Salep orchid) on quality and standard of Ice-Cream. *Internat. J. agric. Sci.*, 19 (1): 279-284, DOI:10.15740/HAS/IJAS/19.1/279-284. Copyright@2023: Hind Agri-Horticultural Society.

Article History: Received: 20.08.2022; Revised: 19.11.2022; Accepted: 20.12.2022

#### INTRODUCTION

Milk is known as the most necessary food for life in infant. Milk and dairy products have formed an integral element of human diet since the earliest domestication animals. Milk has a high nutrient density and thus contributes significantly to the daily intake of several nutrients. It contains many constituents including proteins, fats, carbohydrates, vitamins and minerals (Cakmak *et al.*, 2012). Ice-Cream is a dairy product, is a complex food colloid that consists of air bubbles, fat globules, ice crystals and an unfrozen serum phase. It is a frozen

dessert that is delicious, nutritious and relatively cheap. It is made from dairy products such as cream combined with flavours and sweeteners such as sugar (Mohan et al., 2014). Herbal Ice-Cream is having number of medicinal properties viz anti-septic, anti-microbial, anti-viral, antidiabetic, antioxidants and etc (Ali et al., 2014). Bioactive compounds are naturally occurring in the medicinal plants, leaves, vegetables and roots (Ponnusamy et al, 2009). The medicinal value of plants lies in some chemical substances that produce a definite physiological action as the human body (Zhang, 2009).

<sup>\*</sup>Author for correspondence:

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### RESEARCH PAPER

# Formulation of mixed fruits wine and its quality assessment during storage

Vikrant Kumar\*, Mohd Nayeem Ali and Anjali Jakhar Department of Agriculture, Shri Ram College, Muzaffarnagar (U.P.) India (Email: vkvk6096@gmail.com)

Abstract: The mixture of fruits pulp containing low sugar and thus sugar level will adjust from 25 °Brix by using sugar solution. The juice will yeast by saccharomyces cerevisiae with 1%. The Specific Gravity of mixed fruit wine showed an increasing trend for all the treatments with fermentation period upto 0, 30, 60 and 90 days. The TSS largely affects the various physic-chemical parameters of fermented wine. Sugar is the main substrate for fermentation of fruits juice into alcohol. The specific gravity of the wine was found to be decreased with increase in sugar per cent. The highest value of alcohol content was found 18.65v/v in T<sub>6</sub> sample after last day of fermentation period with 1% of yeast concentration. It has been observed that the sample show the high alcoholic wine.

Key Words: Fruits, Fermentation, TSS, Specific Gravity, Alcoholic Wine

View Point Article: Kumar, Vikrant, Ali, Mohd Nayeem and Jakhar, Anjali (2023). Formulation of mixed fruits wine and its quality assessment during storage. *Internat. J. agric. Sci.*, 19 (2):000-000, DOI:10.15740/HAS/IJAS/19.2/000-000. Copyright@2023: Hind Agri-Horticultural Society.

Article History: Received: 00.00.2023; Accepted: 00.00.2023

#### Introduction

Grapes are known to be the most commonly used raw material for the production of wine (Satav and Pethe, 2017). Wine making is perhaps the most antiquated innovations and is presently quite possibly the most economically prosperous biotechnological measures. The best pH values in essential for yeast augmentation and ethanol materialization.

The wine sector is going now a day through a period of severe crisis mainly due to the process of globalization in which all the countries producing wine have entered into fierce competition with each other. One of the main factors affecting the cost of running the vineyard and, therefore, the final price of the wine is certainly the grape harvest (Catania *et al.*, 2009).

The use of suitable yeast culture can be employed to enhance desirable flavor compounds while maintaining the fermentation reliability not only for grape wine but also for other fruit wines such as pineapple, pomegranate, apple, etc. Citrus is the simplest absorbed fruit as a good source of nutrients and another vitamin C. Oranges are grown all over the world. It usually eats up in raw form or fruit salads as well as juice so perform work has been carried out to inspect the suitability of orange juice for the formulation of wine (Patharkar *et al.*, 2017). The

<sup>\*</sup>Author for correspondence:

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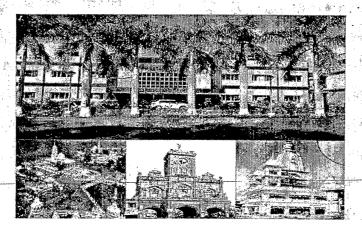
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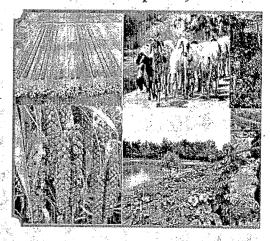
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	PICKLE OF KARONDA (CARISSA CONGESTALL)  UPENDRA MAURYA, SATYA PRAKASH, ABHISHEK CHANDRA AND MOHIT KLIMAR
218	INNOVATIVE METHOD OF VEGITIATIVE PROPAGATION IN GUAVA (PSIDIUM GUATAVA L.)
	VARNIT AGARWALL SATIYA FRAKASHI SRISDIY KUMARU
219.	VALUE ADDITION IN BANANA: A SCOPE FOR ENHANCEMENT OF INCOME IN INTEGRATED FRAMING SYSTEMS A NATH PRAKASH CHASAL P. KASHYAP M. SAMIM, A PRUSTY, D. DUTTA, S. MALIK.
220.	N. RAVISANKAR, R.P.: MISHRA, P. PUNIA, S.P.: SINGH AND A.S. PANWAR.  SUSTAINABLE FOOD SECURITY INDEX: A DISTRICT-LEVEL STUDY OF LITTARAKHAND  SHEFALI SRIVASTAVA AND SANJAI KUMAR SRIVASTAVA.
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	CLIMATE SMART INTEGRATED FARMING SYSTEM MODEL FOR LIVELIHOOD SECURITY S S WALLA AND TAMANPREET KAUR
72	8. CLIMATE SMART INTEGRATED PARMING SYSTEM FOR DIFFERENT AGRO-ECOLOGIES













## FARMING SYSTEMS RESEARCH AND DEVELOPMENT ASSOCIATION (FSRDA)

## **National Conference on**

NC/FSRDA/2023/P/236

## **Agro-Ecology Based Agri-Food Transformation Systems**

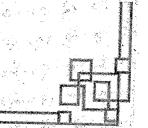
Certificate of Participation

This is to certify that <u>Dr. Anjali Jakhar</u> from <u>Shri Ram College, Muzaffarnagar</u> has participated in the National conference on "Agro-Ecology Based Agri-Food Transformation Systems" organized by FSRDA and ICAR-IIFSR in collaboration with CIMMYT and ICRISAT at ICAR-IIFSR, Modipuram, Meerut, India during 27-28, January, 2023 and presented a poster paper titled: <u>Develop a banana Kulfi via partial addition of different levels of banana.</u>

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INTERNATIONAL YEAR OF MILLETS

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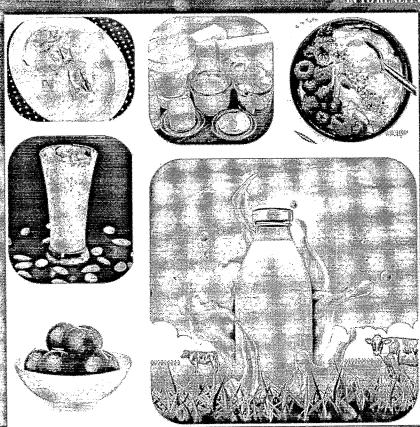
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DREAMS



## **JOINTLY ORGANIZED BY:**

DEPARTMENT OF HOME SCIENCE



DEPARTMENT OF

AGRICULTURE

SHRIRAM COLLEGE, MUZAFFARNAGAR

Website: www.srcmzn.com



# Shai Ram College Muzaffarnagar

## Gertificate

(Dr Ashok Kumar) Chairman (Dr Shweta Rathi) Oran Secretary

(Dr/Navéem Ali) Gonvenor (Alina Siddiqui)

# **GMST** 2021

Organized by:



HI-TECH HORTICULTURAL SOCIETY, MEERUT (U.P.)



PRERNA FOUNDATION MEERUT (U.P.)

In Collaboration with:



Society for Recent Development in Agriculture, Meerut (U.P.) India



College of Horticulture, SVPUA & T Meerut (U.P.) India



Shri Ram College, Muzaffarnagar



CSAUA&T, Kanpur (U.P.) India



SKRAU, Bikaner, Rajsthan, India.



SVSU, Meerut, (U.P.) India

## International Conference Hybrid Mode

5<sup>th</sup> Global Meet on Science and Technology for Minimizing Innovation Cost & Time : To Make a Long Story Short

<u>Certificate</u>

This is to Certify that Dr./Mr./Mrs./Ms. Anjali. Jakhes.

Ass. Prof. Sept. of Agric. Sec. on: Nagar.

Sarticipated / presented Lead paper / Invited lecture/ Oral /Poster paper entitled .......

during 5<sup>th</sup> Global Meet on Science and Technology for Minimizing Innovation Cost & Time:

To Make a Long Story Short (GMST-2021) held during 08 <sup>th</sup> 09 <sup>th</sup> October, 2022 at

Swami Vivekanand Subharti University, Meerut.

Prof. Mahavir Singh Organizing Co-Chairman Prof. Bijendra Singh Organizing Chairman

# SOCIETY FOR WORLD ENVIRONMENT, FOOD AND TECHNOLOGY (SWEFT



## NEW DELHI (INDIA)

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Life Membership No. : SWEFT/SAJFTE/ Date : ....[9.—]9—22





The Executive Committee of the Society confers

## YOUNG SCIENTIST AWARD-2021

.to

Dr. Anjali Jakhar Assistant Professor Shri Ram Group of College Muzaffarnagar (UP)

For his /her outstanding contribution and recognition in the field of

## Agricultural Economics

on the occasion of First International Conference on

Contribution of Agriculture for Challenges and Opportunity of Food Security till 2030 jointly organized by Society for World Environment, Food and Technology (SWEFT), Meerut (U.P.) and Mangalayatan University, Jäbalpur (M.P.) during October 15-16, 2022 at Conference Hall, Mangalayatan University, Barela, Jabalpur, (M.P.)

ated: 16.10.2022

President Susre and

for Society for World Environment, Food and Technology

# International Conference



# Contribution of Agriculture for Challenges and Opportunity of Food Security till 2030

(Hybrid Mode)

# **Certificate of Participatio**

### SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR Teachers Self Appraisal for Session 20.22, 20.23

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Page 2 of

Note: Supporting briefs may be reported as attachment wherever required or submitted on separate note sheets.

Observations & Scores by HoD
(Im case of HoD/s, scoring has to be made by the Head of Institution

<u>'</u>		Remarks
	Factual Data	Nomarks.
1	Teaching Performance	9000
2	Regularity and Punctuality	Regular & Pinelical Timely preparation of lecture plans
3	Details of Course teaching plan, synopses of lectures	Timely preparation of
	and reading lists supplied to students	lewie plans.
4	Details of participation	densteaher 4- Larger Ro
5	Details of Innovations/ Contribution in Teaching	Catisfactory
6	Use of ICT	Average
7 .	Improvement of Professional Competence	Sot Stilling.
8	Research Contributions in session	Average
9	Extension Work Community Service	Coordinaling Kangles
10 .	Professional Organisations	
11	Assessment	
12	General Data	
Gener	al Remarks of Director	orley Rome Peacher  Signature  Signature
Obse	rvations /Order	Chairman/Secretary
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Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

S.No.	(In case of FloD)s, scotting	g has to be made by the Head of insul Feedback by Students (10)	Feedback by HoD (10)
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1	Subject Knowledge		8)
2	Decency of Dress		
3	Facial Expressions		8
	Quality of Voice		8
4.			9
5	Confidence Level		a
6	Use of White Board/Black Board		/ A
7	Use of ICT/ Projector		0
			9
8 4.	Pre-Class preparation	1	8
9	Skill of Putting Examples		0
1.0	Generating Queries		
	N ( ) ( ) ( ) ( ) ( )		1 0
11	Class Discipline		9
. 12	2 Punctuality		0.**
	3 Generating Interest in Subject		0
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Certificate No: ICT-7401/22



### Antional Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



#### PRAVEEN KUMAR

SHR! RAM COLLFEGS, MUZAFFARNAGAR, MUZAFFARNAGAR
UTTAR PRADESH

Participated in the AICTE Recognized Faculty Development Programme

on

**Developing Employable Skills** 

Conducted by

Education and Educational Management Department

from

18/07/2022 to 22/07/2022 (One Week)

at

Shri Ram Group of Colleges, Muzaffarnagar



Coordinator

BON

Certificate No: ICT-1359/22

### National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



#### **PRAVEEN KUMAR**

## SHRI RAM COLLEEGS, MUZAFFARNAGAR, MUZAFFARNAGAR UTTAR PRADESH

Participated in the AICTE Recognized Faculty Development Programme

on

NEP 2020 Implementation in Higher Education Institutes

Conducted by

**Curriculum Development Centre Department** 

from

09/05/2022 to 13/05/2022 (One Week)

at

Shri Ram Group of Colleges Muzaffarnagar



Coordinator

REW W

# AiRo Digital Labs Gurgaon



in collaboration with



## Shri Ram Group of Colleges

Muzaffarnagar

# Workshop on Artificial Intelligence Robotic Process Automation

### Certificate of Participation

This is to certify that Mr/Ms	faculty of Compater
Application college/institute of Shri Ram Calleg.	
has attended a two days Workshop on "Artificial Intelligent I	
conducted by AiRo Digital Labs, Gurgaon in collaboration with	Shri Ram Group of Colleges,
Muzaffarnagar (UP) on 13th & 14th May 2022.	
Min wiele leine I land fran an angage fortung	

We wish him/her for success future.

(Sayak Das) Co-Founder, AiRo (Dr Alok Gupta) Director, SRCE



# Technical Teachers Training and Research Ohandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



PRAVEEN KUMAR

SHRI RAM COLLEEGS, MUZAFFARNAGAR, MUZAFFARNAGAR
UTTAR PRADESH

Participated in the AICTE Recognized Faculty Development Programme

on

Outcome Based Curriculum Design

Conducted by

**Curriculum Development Centre Department** 

from

05/09/2022 to 09/09/2022 (One Week)

at

Shri Ram Group of Colleges, Muzaffarnagar, U.P.



Coordinator

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s.p	RIRAM GROUP OF COLLEGES, MUZAFFARNAGAR  Teachers Self Appraisal for Session 2022—20.2 g	
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Name of College Show Ram.	Gallege Department CA Designation ASSE Port	. : **
110	CA2-Date of Birth 06 -04-793-Date of joining 2.5701/2017	
4- Previous Experience (in years): Te	aching A: S=21 Industry A: GABAIPH 7322 P	
5-Specialization DBons A.C.	6-Aadhar No. 39171	
8-Address	alony Deal cend Whatsapp No. 93, 593, 592, O. E-Mail. hingushuberg@gnoil @	m
Mob No. 95393393	Whatsapp No.43.3.45.3.46.3.47.44.4.	
9-Teaching performance:	No. of Students	Ť
Papers Taught in session	No, of Periods Total Clear Passed Pass of	
Odd/Even sem.  Note:- Exam Result : Odd Sem	Passed Paris Telepin Stdnts	,
(this year), Even Sem (last year)	week Odd/Even Sem. Appu B/CO Cle B/	1
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Total Nos.		
10-Regularity and Punctuality: Le	ave availed OG Late Arrivals Absence Nil	
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11-Details of Course teaching plan	synopses of lecturers and reading lists supplied to students (Attach the Detail) -	•
	Aven Sem/Annual	
12-Details of participation in the fo University/ College work	cllowing: Int./Coll. Ext./Univ. Int./Coll. Ext./Univ.	1
(i) Ans. Script Evaluation	#	
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13 Details of Innovations/Contrib	oution in Teaching, during the year: (brief overleaf)  (ii) Teaching methods, Society, PRT, Projector of Communication of the second of the se	C. L.
(i) Design of curriculum.	(ii) Teaching inclineds Lab Manuals, Presented	·
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Communication & Communication Technology)	A anignments Exam
- Use of ICT (Information & Communication Technology)  5-Improvement of Professional Competence: indicate no. in below table respectively  No.   N.   Ph.D.   N.   Ph.D.   Ph.	PTEL Assignments certificates
5-Improvement of Professional Company Seminars Symposia (Yes) C	ourses
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16- Research Contributions in session: (i) Number of students registered (M.Phil./Ph.D.)  Completed du	ring the year
(i) Number of Students Togather the year	
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(li)No. of research papers (enclose list) Published Accepted (b) Duration	to or
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17- Extension World Community of your contribution to:	democracy, socialism, numerical
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19- Professional Organization of the evaluation of the course programme tangent 20- Assessment: - Steps taken for the evaluation of the course programme tangent 20- Assessment: - Steps taken for the evaluation of your performance indicating (attach the detail) 21- General Data: - State brief assessment of your performance indicating (iii) suggestions for (iii) difficulties faced	
20- Assessment: - Steps taken for the Evaluation of your performance indicating (attachane detail) 21- General Data: - State brief assessment of your performance indicating (iii) suggestions for	improvement
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Feedback for teacher by Student & HoD (In case of HoD/s, scoring has to be made by the Head of Institution)

	(In case of HoD/s, scoring	Feedback by Stud	ents	Feedback by HoD (10)	
S.No.		(10)		Э	
1	Subject Knowledge				
2	Decency of Dress			9	
3	Facial Expressions			9	
ı	Quality of Voice			9	
4				9	1
5	Confidence Level			2	
6	Use of White Board/Black Board			a)	
7	Use of ICIT/ Projector			U	-
<i>3.</i>	Pre-Class preparation			0	
8 14.				9	
9	Skill of Putting, Examples			9	
1.0	Generating Queries			***	
11	Class Discipline			<u> </u>	4
1.1				· D	
12	10   11   12   12   13   14   15   15   15   15   15   15   15			8	
13	Generating Interest in Supject				
	4 Encouraging Participation			3	+
14				9	
	5 Guidance and Advice			8	
1	16 Inside Class Motivation			0	
	ologi Wottvation			<i>O</i> %	
		%		84770	
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Observations & Scores by HoD
(In case of HoD/s, scoring has to be made by the Head of Institution

Factual Data		Remarks
		C 12
1 Teaching Performance	1	Good Teaching Pinclual
2 Regularity and Punctuality	<u>.    ,</u>	finelial
Details of Course teaching plan, synopses of lectures and reading lists supplied to students		Prepared timely
4 Details of participation		Active Participalus
5 Details of Innovations/ Contribution in Teaching	#	Cetisfactory
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6 Use of ICT 7 Improvement of Professional Competence		Aningel
	7	Annage
8 Research Contributions in session		Gard water Odmissing
9 Extension Work/ Community Service	-	Comisel
10 Professional Organisations	***	
11 Assessment		
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Observations / Order	•	
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		Chairman/Secreta

Page:



### National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



#### HIMANSHU

### SHRI RAM COLLEGE, MUZAFFARNAGAR **UTTAR PRADESH**

Participated in the AICTE Recognized Faculty Development Programme

NEP 2020 Implementation in Higher Education Institutes

Conducted by

**Curriculum Development Centre Department** 

from

09/05/2022 to 13/05/2022 (One Week)

Shri Ram Group of Colleges Muzaffarnagar



Coordinator

Certificate No: ICT-5883/22



### Astional Institute of Technical Teachers Training and Research Chandigach

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



#### **HIMANSHU**

## SHRI RAM COLLEGE, MUZAFFARNAGAR UTTAR PRADESH

Participated in the AICTE Recognized Faculty Development Programme

on

**Accreditation Criteria and Process** 

Conducted by

**Curriculum Development Centre Department** 

from

25/07/2022 to 29/07/2022 (One Week)

at

Shri Ram Group of Colleges, Muzaffarnagar Uttar Pradesh



Coordinator

BEZY

Certificate No: ICT-10634/22

# Astional Institute of Technical Teachers Training and Research Chardinach

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that



#### HIMANSHU

### SHRI RAM COLLEGE, MUZAFFARNAGAR UTTAR PRADESH

Participated in the AICTE Recognized Faculty Development Programme

on

**Outcome Based Curriculum Design** 

Conducted by

**Curriculum Development Centre Department** 

from

05/09/2022 to 09/09/2022 (One Week)

at

Shri Ram Group of Colleges, Muzaffarnagar, U.P.



Coordinator



# AiRo Digital Labs Gurgaon



in collaboration with



# Shri Ram Group of Colleges Muzaffarnagar

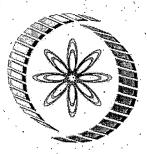
### Workshop on Artificial Intelligence Robotic Process Automation

### Certificate of Participation

This is to certify that	Mr/MsD	%£limar	shuHona	······	faculty of	Campus.	<b>3.</b>
Application college							
has attended a two days	Workshop o	n "Artific	ial Intellige	nt Robo	tic Pro	cess Auto	mation"
conducted by AiRo Dig		•		•			
Muzaffarnagar (UP) or	13th & 14th 7	May 2022.		1		*	
We wish him/her for			· ·				

(Sayak Das) Co-Founder, AiRo

(D+Alok Gupta) Director, SRCE



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

### **HIMANSHU HORA**

for passing the course

### **Data Base Management System**

with Score\* 66 %

Jan-Mar 2022 (8 week course) A. GOSHAMI

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur



Indian Institute of Technology Kharagpur





Jun 3, 2023

### Himanshu Hora

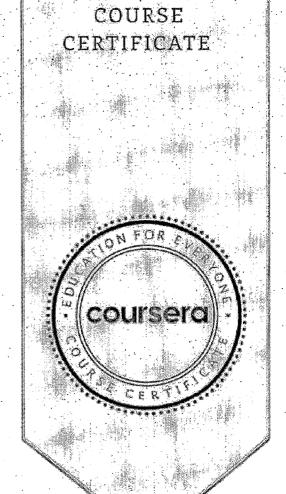
has successfully completed

### Leadership Skills

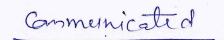
an online non-credit course authorized by HMA - Indian Institute of Management Ahmedabad and offered through Coursera

Vish

Vishal Gupta
Professor
Organizational Behavior Area
Indian Institute of Management Ahmedabad



Coursera has confirmed the identity of this individual and their participation in the course.



# The Application of Metaverse in Education: A Promising Frontier in India

#### 1. Dr. Himanshu Hora

Assistant Professor, Department of Computer Application, Shri Ram College, Muzaffarnagar

#### 2. Ankur Rohila

Assistant Professor, Department of Computer Application, Shri Ram College, Muzaffarnagar

Abstract: The emergence of metaverse technologies has opened up new possibilities in various sectors, including education. This research paper explores the application of the metaverse in the context of education in India. It investigates the potential benefits, challenges, and implementation strategies of incorporating metaverse platforms into the Indian education system. The study examines the current state of education in India, explores the concept of the metaverse, and discusses its implications for enhancing teaching and learning experiences. Additionally, the paper analyzes the suitability of metaverse platforms for the Indian education system, considering factors such as infrastructure, accessibility, and cultural diversity. Finally, the research paper provides recommendations and future directions for leveraging the metaverse in education to promote inclusive and immersive learning environments in India.

#### 1. Introduction:

The metaverse refers to a virtual reality space where users can interact with a computer-generated environment and other users in real-time. It is a concept that has gained significant attention and significance in recent years due to advancements in technology and its potential impact on various aspects of our lives. The concept of the metaverse originated in science fiction literature, particularly in Neal Stephenson's novel "Snow Crash" published in 1992. It described a virtual reality-based successor to the internet, where people could interact with each other and artificial intelligence entities in a shared virtual space. Since then, the idea of the metaverse has captured the imagination of researchers, developers, and entrepreneurs. Advancements in virtual reality (VR), augmented reality (AR), blockchain, cloud computing, and artificial intelligence have brought us closer to realizing the vision of the metaverse. Companies like Facebook (now



# Shri Kanı Group of Colleges - Muzanamagar

### A Joken of Augreciation

The Chairman and the Founders of the SRGC have always praised the stried venturous ifforts for institutional "Brand Making". Admission colling for students is one of the indispensable requirements at the meat. Admission counsellors work collaboratively involves reviewing moning tele-calls, to verify applicant information and materials, and to provide assistance in making final approvals for college admission.

In pursuit of this stupendous, some of our teaching fraternities have distinguished themselves through their distinct significant contribution in realizing the SRGC Founders' ambitions.

To this effect the SRGC family feels delighted in conferring upon Mr. Himanshu Hora, Associate Professor, Department of Computer Application, Shri Ram College, this certificate of commendation for his commitment to institutional Brand Making by way of his contribution as Admission Coordinator.

As the Best Admission Coordinator, he has consistently focused upon the students, addressing their concerns throughout the admissions process. He possesses effective communication skills and he has also maintained a helpful attitude with other team members.

We wish him the best of luck and success in his endeavours.





# Certificate of Excellence

**CONFERRED TO** 

# Mr. Himanshu Hora

ssociate Professor, Shri Ram College, Muzaffarnagar (U.P.) - INDIA

## Excellence in Education

In appreciation and recognition of outstanding contribution in Academics on the occasion of

# International Education Conclave

National Education Policy 2022

(Implementation, Challenges & Future Scope) at USI Auditorium - New Delhi November 25", 2022





