

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

Name of College... Shri Ram College Department... BBA Designation... Assistant Professor

1-Name... Nishi Thakur 2-Date of Birth... 07/04/1998 3-Date of joining... 28/sep/21

4- Previous Experience (in years): Teaching ..... Industry .....

5-Specialization... Finance / HR 6-Aadhar No. 261773445927 7-PAN No. BWKPT4222N

8-Address... 24/E Kalyanpur, New Mandi, N.Z.A.

Mob No. 7660770722 Whatsapp No. 7660770722 E-Mail... Nishi.thakur.1998@gmail.com

Papers Taught in session Odd/Even sem.		No. of Periods						Total Stdnts Appd in Exam	No. of Students				Pass %	
Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given		Allotted Per week			Taken in Odd/Even Sem.				Clear Passed		Passed With B/CO Paper			
									Percentage					
		L	T	P	L	T	P		≥ 60	≥50/ <60		≥40 / <50	Cle ar	B/ COP
23) Even Sem		12	-	-	130	-	-	383	320	50	6	7	98%	2%
BE		6	-	-	62	-	-	106	98	4	4	-	100%	-
Auditing		6	-	-	61	-	-	84	70	10	4	-	100%	-
POM		12	-	-	130	-	-	181	160	18	3	-	100%	-
oddsem BOE		6	-	-	60	-	-	75	60	8	5	2	97%	3%
IE		6	-	-	57	-	-	20	12	4	2	2	98%	2%
FIIM		6	-	-	57	-	-	20	12	4	2	2	98%	2%
Teaching in PG and Other Departments														

10-Regularity and Punctuality: Leave availed

Late Arrivals

Absence

11-Details of Course teaching plan, synopses of lecturers and reading lists supplied to students (Attach the Detail) -

12-Details of participation in the following:

- 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

Odd Sem

Even Sem/Annual

Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
✓		✓	
✓		✓	
✓		✓	
✓	✓	✓	✓
✓		✓	

13- Details of Innovations/Contribution in Teaching, during the year : (brief overleaf)

- (i) Design of curriculum.....
- (ii) 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)
- (vii) Any other



14- Use of ICT (Information & Communication Technology): .....

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
			(1)						
			✓						

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)

At the beginning

During the year

Completed during the year

Accepted

Communicated

(ii) No. of research papers (enclose list) Published

(iii) Research Projects: (a) Title .....

(b) Duration .....

(d) Major/Minor .....

(c) Funding Agency .....

(iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)

(b) National Literacy Mission/ RUSA (Nos.)

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution

(ii) Co-curricular activities

(iii) Enrichment of campus life (hostels, sports, games, cultural activities)

(iv) Students welfare and Discipline

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

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

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

(Full Signature of the Teacher)

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
1	Teaching Performance	Satisfactory
2	Regularity and Punctuality	Regular but less punctual in college but Punctual in class room
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	Follows course plans and shares study material with students
4	Details of participation	Participated in all college works assigned
5	Details of Innovations/ Contribution in Teaching	NIL
6	Use of ICT	Yes
7	Improvement of Professional Competence	One seminar attended
8	Research Contributions in session	NIL
9	Extension Work/ Community Service	NIL
10	Professional Organisations	NIL
11	Assessment	Through class Tests and assignments
12	General Data	NIL

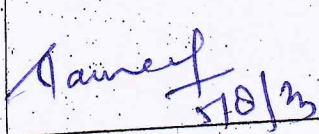
General Remarks of HoD

Sincere and dedicated faculty member, introvert but still work with a sense of togetherness.

  
Signature

General Remarks of Director

1 Dec 11  
— Need Improvement  
— Not Punctual  
— Satisfactory performance

  
Signature

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)

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



**SHRI RAM GROUP OF COLLEGES, MUZAFFARNAGAR**  
**Teachers Self Appraisal for Session 2022-2023**

Name of College: Shri Ram College, MZN Department: BBA Designation: Assistant Professor

1-Name: Shivani Sharma 2-Date of Birth: 15/7/1993 3-Date of joining: 20/12/2020

4- Previous Experience (in years): Teaching 10 years Industry:

5-Specialization: Finance 6-Aadhar No: 563106340481 7-PAN No: CFOPC0151F

8-Address: 652, Makhiyali, Bhopa Road, Muzaffarnagar

Mob No: 8191834088 Whatsapp No: 8191834088 E-Mail: gautam.0631365@gmail.com

9-Teaching performance:

9-Teaching performance:		No. of Periods						Total Stdnts Appd in Exam	No. of Students			Passed With B/CO Paper	Pass %	
Papers Taught in session Odd/Even sem.	Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given	Allotted Per week			Taken in Odd/Even Sem.				Clear Passed				Cle ar	B/ COP
		L	T	P	L	T	P		≥ 60	≥50/ <60	≥40 / <50			
Short Title/Code														
Even Sem (21-22)														
QTB		12	-	-	129	-	-	161	130	16	7	8	95.4	4.96
FM		12	-	-	181	-	-	167	112	28	21	6	96.40	3.60
Odd Sem (22-23)														
AFA		12	-	-	124	-	-	187	135	23	20	9	95.18	4.82
BL		6	-	-	57	-	-	74	39	18	10	7	90.54	9.46
CT-DSIT		6	-	-	71	-	-	45	20	9	8	8	82.22	17.78
Teaching in PG and Other Departments														

10-Regularity and Punctuality: Leave availed

10 Late Arrivals

- Absence

11-Details of Course teaching plan, synopses of lecturers and reading lists supplied to students (Attach the Detail) -

12-Details of participation in the following:

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

Odd Sem Even Sem/Annual

Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
✓		✓	
✓		✓	
✓		✓	
✓	✓	✓	✓
✓		✓	

13- Details of Innovations/Contribution in Teaching, during the year : (brief overleaf)

(i) Design of curriculum.....(ii) 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)

(vii) Any other



14- Use of ICT (Information & Communication Technology): Yes

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
			1						

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)  
At the beginning  During the year

Completed during the year

Accepted

Communicated

(ii) No. of research papers (enclose list) Published

(iii) Research Projects: (a) Title.....

(b) Duration.....

(c) Funding Agency .....

(d) Major/Minor .....

(iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)

(b) National Literacy Mission/ RUSA (Nos.)

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution

(ii) Co-curricular activities ✓

(iii) Enrichment of campus life (hostels, sports, games, cultural activities) ✓

(iv) Students welfare and Discipline ✓

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

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

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

Shirani  
(Full Signature of the Teacher)

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
1	Teaching Performance	Satisfactory performance, Command in Numerical papers
2	Regularity and Punctuality	Regular & Punctual in college as well as in classroom
3	Details of Course teaching plan, synopsis of lectures and reading lists supplied to students	Maintain lecture plan and study material supplied to students.
4	Details of participation	Participated in all allotted college work assignments.
5	Details of Innovations/ Contribution in Teaching	Preparing of study material only.
6	Use of ICT	Yes (
7	Improvement of Professional Competence	one Seminar attended.
8	Research Contributions in session	NIL
9	Extension Work/ Community Service	NIL
10	Professional Organisations	NIL
11	Assessment	Through assignments & tests
12	General Data	NIL

General Remarks of HoD

Participates actively in all assigned works, takes responsibilities, represents the deptt. in SRGC cultural committee. Overall sincere & promising teacher

Signature

General Remarks of Director

Dean  
Satisfactory Performance  
Sincere  
Good Teacher  
Dharmesh  
5/8/2023

Signature

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)

S.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
6	Use of White Board/ Black Board		10
7	Use of ICT/ Projector		07
8	Pre-Class preparation		08
9	Skill of Putting Examples		08
10	Generating Queries		08
11	Class Discipline		10
12	Punctuality		09
13	Generating Interest in Subject		08
14	Encouraging Participation		08
15	Guidance and Advice		09
16	Inside Class Motivation		08
17	Outside Class Motivation		08
	% Score	170	144 (84.7%)



Teachers Self Appraisal for Session 20.....20.....

Name of College.....Shri Ram College.....Department.....BBA.....Designation.....Assistant Professor.....

9-Teaching performance:

10-Regularity and Punctuality: Leave availed

## Late Arrivals

## Absence

M.I.		
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12-Details of participation in the following:

(v) Evaluation of Dissertation/Projects

d Sem		Even Sem/Annual	
Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
✓		✓	
✓		✓	
✓		✓	
✓		✓	
✓		✓	

(vii) Any other

- \* Benet to course direction in our college
- \* Give guidance for placements.
- \* Benefit to student with SRAC.



14- Use of ICT (Information & Communication Technology): (P.P.T) Yes

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
		1							

- 16- Research Contributions in session :
- (i) Number of students registered (M.Phil./Ph.D.)
    - At the beginning ☐ During the year ☐ Completed during the year ☐
  - (ii) No. of research papers (enclose list) Published ☐ Accepted ☐ Communicated ☐
  - (iii) Research Projects: (a) Title..... (b) Duration.....
  - (c) Funding Agency..... (d) Major/Minor.....
  - (iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail)
  - (v) Patents taken, if any, attach a brief description
  - (vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)

- 17- Extension Work/Community Service
- (i) Please give a short account of your contribution to:
    - (a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)
    - (b) National Literacy Mission/ RUSA (Nos.) Make donations in welfare fund in MGRC (Helping Hand)
  - (ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

- 18- Participation in Corporate Life :- Please give a short account of your contribution to :
- (i) College/University/Institution
  - (ii) Co-curricular activities ✓
  - (iii) Enrichment of campus life (hostels, sports, games, cultural activities)
  - (iv) Students welfare and Discipline
  - (v) Membership/Participation in Bodies/Committees on Education and National Development

- 19- Professional Organizations of Teachers Coordinator of evaluation center CBSE (Science)
- 20- Assessment:- Steps taken for the evaluation of the course programme taught
- 21- General Data:- State brief assessment of your performance indicating (attach the detail)
- (i) Achievements
  - (ii) difficulties faced
  - (iii) suggestions for improvement

"Presentation on Stress Management" No

\* We can organize clubs, seminars for students, focus on skill development Programs.

I certify that all the above facts and related statements made by me are true.

Mirekta  
(Full Signature of the Teacher)

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
1	Teaching Performance	Satisfactory, manage class nicely
2	Regularity and Punctuality	Less casual leaves, Punctual
3	Details of Course teaching plan, synopsis of lectures and reading lists supplied to students	Maintain lecture plans and shared study material with students
4	Details of participation	Participated in all college work assignments
5	Details of Innovations/ Contribution in Teaching	Students counseling
6	Use of ICT	Yes
7	Improvement of Professional Competence	one workshop attended
8	Research Contributions in session	NIL
9	Extension Work/ Community Service	Donations to help poor
10	Professional Organisations	At school level
11	Assessment	Through assignments & tests
12	General Data	No specific achievements

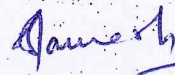
General Remarks of HoD

Gives 100% in all allotted tasks, affectionate teacher among students.  
Shown good sign for future potential.

  
Signature

General Remarks of Director

Dean  
- Popular among the students  
- Always learn and ready to work

  
Signature  
17/12/2013

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)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		07
2	Decency of Dress		08
3	Facial Expressions		08
4	Quality of Voice		09
5	Confidence Level		09
6	Use of White Board/ Black Board		09
7	Use of ICT/ Projector		07
8	Pre-Class preparation		07
9	Skill of Putting Examples		08
10	Generating Queries		08
11	Class Discipline		08
12	Punctuality		09
13	Generating Interest in Subject		09
14	Encouraging Participation		09
15	Guidance and Advice		08
16	Inside Class Motivation		09
17	Outside Class Motivation		08
	% Score	170	140 (82.3%)



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

Name of College SHRI RAM COLLEGE Department COMMERCE Designation ASST. PROF.

1-Name POOJA RAGHUVANSHI 2-Date of Birth 20/7/1992 3-Date of joining 6/sep/2014

4- Previous Experience (in years): Teaching NIL Industry .....

5-Specialization ..... 6-Aadhar No. 650024275274 7-PAN No. DDCPD8417E

8-Address 1248/76 SANTOSH VIHAR, SOUTH CIVIL LINES, MZN

Mob No. 9084992298 Whatsapp No. 8449918400 E-Mail. poofa.srgc2020@gmail.com

9-Teaching performance:

9-Teaching performance:		No. of Periods						Total Stdnts Appd in Exam	No. of Students			Pass %		
Papers Taught in session Odd/Even sem.	Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given	Allotted Per week			Taken in Odd/Even Sem.				Clear Passed		Passed With B/CO Paper			
		L	T	P	L	T	P		Percentage					
									≥ 60	≥50/ ≤60		≥40/ ≤50		
Short Title/Code		L	T	P	L	T	P		≥ 60	≥50/ ≤60	≥40/ ≤50		Cle ar	B/ COP
		18	-	-	90	-	-	240	84	57	38	61	74.6%	95.4%
BM		02	-	-	60	-	-	176	70	43	55	08	95.5%	4.5%
AU		03	-	-	60	-	-	190	RESULT AWAITED					
BO		03	-	-	30	-	-	95	RESULT AWAITED					
FNH														
Teaching in PG and Other Departments														
IM		06	-	-	65	-	-	55	55	NIL	NIL	NIL	100%	NIL
SM		06	-	-	65	-	-	40	35	5	NIL	NIL	100%	NIL
AU [BCL]		06												
Total Nos.														

10-Regularity and Punctuality: Leave availed

14

Late Arrivals

Absence

NIL

11-Details of Course teaching plan, synopses of lecturers and reading lists supplied to students (Attach the Detail) -

12-Details of participation in the following:

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

Odd Sem Even Sem/Annual

Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓

13- Details of Innovations/Contribution in Teaching, during the year : (brief overleaf)

(i) Design of curriculum..... (ii) 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) yes, whenever required

(vii) Any other



14- Use of ICT (Information & Communication Technology): .....

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
-	-	03	01	01	-	-	-	-	-

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)  
At the beginning  During the year

Completed during the year

(ii) No. of research papers (enclose list) Published

Accepted  Communicated

(iii) Research Projects: (a) Title.....

(b) Duration.....

(c) Funding Agency.....

(d) Major/Minor.....

(iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail) NA

(v) Patents taken, if any, attach a brief description NA

(vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail) NA

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)

(b) National Literacy Mission/ RUSA (Nos.)

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf) NSS Co-ordinator

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

(i) College/University/Institution Yes

(ii) Co-curricular activities Inter Departmental Activities

(iii) Enrichment of campus life (hostels, sports, games, cultural activities) Cultural Activities

(iv) Students welfare and Discipline Applicable as leading the department as deputy co-ordinator

(v) Membership/Participation in Bodies/Committees on Education and National Development NA

19- Professional Organizations of Teachers NA

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

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced NA

(iii) suggestions for improvement

1) Student Satisfaction in Classroom.

2) Contribution in telecalling team and admissions.

I certify that all the above facts and related statements made by me are true.

(Full Signature of the Teacher)

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
1	Teaching Performance	Good Teacher
2	Regularity and Punctuality	Need to be Improved
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	course plans are prepared in well mannered
4	Details of participation	Member of cultural committee
5	Details of Innovations/ Contribution in Teaching	—
6	Use of ICT	—
7	Improvement of Professional Competence	—
8	Research Contributions in session	Need to be Improved
9	Extension Work/ Community Service	NCS co-ordinator
10	Professional Organisations	—
11	Assessment	—
12	General Data	Active Participation in Admission.

General Remarks of HoD / Dean

- Active Participation in Admission in all course of MSU.
- Good Teacher, popular among the students

*Samir*  
5/8/2023

Signature

General Remarks of Director

Signature

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)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
2	Decency of Dress		7
3	Facial Expressions		8
4	Quality of Voice		8
5	Confidence Level		7
6	Use of White Board/ Black Board		8
7	Use of ICT/ Projector		—
8	Pre-Class preparation		8
9	Skill of Putting Examples		8
10	Generating Queries		8
11	Class Discipline		9
12	Punctuality		7
13	Generating Interest in Subject		8
14	Encouraging Participation		9
15	Guidance and Advice		8
16	Inside Class Motivation		9
17	Outside Class Motivation		9
	% Score	%	75.88 %



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

Name of College SHRI RAM COLLEGE Department COMMERCE Designation ASSISTANT PROFESSOR

1-Name NAINA BANSAL 2-Date of Birth 21/October/1983 3-Date of joining 1/January/2021  
 4- Previous Experience (in years) 2.5 Years in SRC Industry FINANCE  
 5-Specialization FINANCE 6-Aadhar No. 4173 6627 9571 7-PAN No. DBSPB1056D  
 8-Address 62, NAWAB GHUNT WEST, HANUMAN CHOK, MZN  
 Mob No. 9557 144109 Whatsapp No. 9557144109 E-Mail. nainabansal2110@gmail.com

Mob No...		9-Teaching performance:													
Papers Taught in session Odd/Even sem.		No. of Periods						Total Stdnts Appd in Exam	No. of Students			Passed With B/CO Paper	Pass %		
		Allotted Per week			Taken in Odd/Even Sem.				Clear Passed						
		L	T	P	L	T	P		≥ 60	≥50/ ≤60	≥40/ ≤50				
Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given															
Short Title/Code															
Basic Economics		-	6	-	-	64	-	168	41	79	12	36	78.6/21.4%		
First Aid and Hygiene		-	6	-	-	63	-	92	24	35	15	18	60.4/19.5%		
Business Communication		-	6	-	-	63	-	204	Result Awaited						
Basic Communicative Eng		-	6	-	-	65	-	328	Result Awaited						
Corporate Accounting		-	6	-	-	90	-	218	21	20	110	67	69.3/30.7%		
Teaching in PG and Other Departments															
Business Management (BCOM IIB)		-	6	-	-	65	-	53	17	16	11	9	81.17%		
Total Nos:															
								Late Arrivals		Absence		NIL			

10-Regularity and Punctuality: Leave availed

Late Arrivals

Absence NEIL

11-Details of Course teaching plan, synopsis of lecturers and reading lists supplied to students (Attach the Detail) -

- 12-Details of participation in the following:  
 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

Odd Sem		Even Sem/Annual	
Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓

- 13- Details of Innovations/Contribution in Teaching, during the year : (brief overleaf)  
 (i) Design of curriculum NA  
 (ii) Teaching methods Projector Board  
 (iii) Laboratory experiments NA  
 (iv) Evaluation methods Assignment Test  
 (v) Preparation of resource material including books, reading materials, laboratory manuals etc.  
 (vi) Remedial Teaching/Student Counseling (academic)  
 (vii) Any other



4- Use of ICT (Information & Communication Technology) Yes

5-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil.	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
		03	01						

- 16- Research Contributions in session:
- (i) Number of students registered (M.Phil./Ph.D.)
- At the beginning  During the year  Completed during the year
- (ii) No. of research papers (enclose list) Published  Accepted  Communicated
- (iii) Research Projects: (a) Title  (b) Duration
- (c) Funding Agency  (d) Major/Minor
- (iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail)
- (v) Patents taken, if any, attach a brief description
- (vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)
- 17- Extension Work/Community Service
- (i) Please give a short account of your contribution to:
- (a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)
- (b) National Literacy Mission/RUSA (Nos.)
- (ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)
- 18- Participation in Corporate Life :- Please give a short account of your contribution to:
- (i) College/University/Institution **External Counselling, Internal Telecalling Member, Member of Japan Seminar Registration, Member of Library Audit**
- (ii) Co-curricular activities **Departmental Activities**
- (iii) Enrichment of campus life (hostels, sports, games, cultural activities)
- (iv) Students welfare and Discipline **Incharge of BCOM II Year**
- (v) Membership/Participation in Bodies/Committees on Education and National Development **Examination Committee, Audit Committee, NAAC Comm, Hec**
- 19- Professional Organizations of Teachers
- 20- Assessment:- Steps taken for the evaluation of the course programme taught
- 21- General Data:- State brief assessment of your performance indicating (attach the detail)
- (i) Achievements
- (ii) difficulties faced
- (iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

Naina  
(Full Signature of the)

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
1	Teaching Performance	Good Teacher
2	Regularity and Punctuality	Regular and Punctual
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	GIP Prepared in well manner
4	Details of participation	Always ready to work, Never say No to any work
5	Details of Innovations/ Contribution in Teaching	
6	Use of ICT	Professor
7	Improvement of Professional Competence	
8	Research Contributions in session	Need to be improved
9	Extension Work/ Community Service	
10	Professional Organisations	
11	Assessment	
12	General Data	

General Remarks of HoD | Deen

- Remarkable Performance in Telecalling Team, Good Admissions
- B.com - II year (NEP) Incharge and maintains all records
- Member of Finance Audit Committee @ group level

Signature  
5/10/2023

General Remarks of Director

Signature

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)

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







✓ ELP & mentes mentee of all students.

✓ member of RAWE committee

✓ Extension activity → like fanning, food fanning, in PDFSR.

✓ Student visit in farmer fare SUBPUAT modipuram merit.

✓ Taging of Indore plant in polyhouse & all plant in SRC.



14- Use of ICT (Information & Communication Technology): yes with ppt

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
✓	✓	✓	✓	✓	—	passing	—	✓	✓

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)

At the beginning

0

During the year

0

Completed during the year

0

(ii) No. of research papers(enclose list)Published Article

06

Accepted

03

Book chapter

Communicated

0

(iii) Research Projects: (a) Title... Scientific cultivation of mushroom (b) Duration... 3 months

(c) Funding Agency... Students

(d) Major/Minor... Entomology/pathology

(iv) Details of Conferences (No.), Seminars (04), Symposia (01) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies (No.), Editorship of Journals (04) etc. (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (No.)

(b) National Literacy Mission/ RUSA (No.)

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution - Teaching, NAAC, ICAR,

(ii) Co-curricular activities Seminars, add'l courses, workshops poster competition, other cultural activities

(iii) Enrichment of campus life (hostels, sports, games, cultural activities)

(iv) Students welfare and Discipline yes - Grate duty

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

20- Assessment:- Steps taken for the evaluation of the course programme taught - unit, Test, External Exam, Assignment, PPT, Prepony

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

(Full Signature of the Teacher)

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
1	Teaching Performance	Excellent
2	Regularity and Punctuality	Good
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	Good
4	Details of participation	Satisfactory.
5	Details of Innovations/ Contribution in Teaching	Good
6	Use of ICT	Good
7	Improvement of Professional Competence	Excellent
8	Research Contributions in session	Satisfactory.
9	Extension Work/ Community Service	Excellent
10	Professional Organisations	Good
11	Assessment	Good.
12	General Data	Good.

General Remarks of HoD	<p>Mr. Senaj is very best for teaching work.</p> <p><i>[Signature]</i> S. J. S.</p>
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General Remarks of Director	<p>A knowledgeable &amp; soft spoken person. Regular &amp; punctual.</p> <p><i>[Signature]</i> Signature</p>
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Observations /Order	<p align="right">Chairman/Secretary</p>
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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.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		9
2	Decency of Dress		8
3	Facial Expressions		8
4	Quality of Voice		9
5	Confidence Level		7
6	Use of White Board/ Black Board		8
7	Use of ICT/ Projector		8
8	Pre-Class preparation		7
9	Skill of Putting Examples		8
10	Generating Queries		8
11	Class Discipline		8
12	Punctuality		8
13	Generating Interest in Subject		9
14	Encouraging Participation		8
15	Guidance and Advice		8
16	Inside Class Motivation		8
17	Outside Class Motivation		8
	% Score	%	137 % 817.



Sri Ram College, Muzaffarnagar-251001

## Department of Agriculture

## List of Add-On Course offered by Faculty of agriculture department in session 2022-23

Department	Title of Certificate Course/ Add-on Programme	Course Coordinator	Duration of Programme	Date of Commencement	Maximum Intake	Actual Number of participants	Course Fee	Total Collection
Agriculture	Scientific Cultivation of Mushroom	Mr. Suraj Singh	3 Month (90 Days)	15.02.2023	100	67	500	33500 (Submitted to Head to Office)
Agriculture	Vermi-composting	Dr. Vikrant	30 Days	Per year	100	100	Free	No

Date: 22.02.2023

22/02/2023  
HOD

Agriculture Department  
SRC, Muzaffarnagar



श्रीराम कॉलेज मुजफ्फरनगर (UP)



附录4

धन्यवाद।

Date-08-02-23

कोर्स प्रभासी

शूरज सिंह सहायक प्राध्यापक  
कृषि विभाग एस.आर.सी.  
मुजफ्फरनगर

1920

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9.2.13  
Director  
Shri Ram College  
Muzaffarnagar

Mr Surg South  
22 go ahead





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*  
10/02/2023.  
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 x 500 = 33500/-

Students list are enclosed

S.N.	NAME OF STUDENTS	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	Dharmendra Kumar	9523615037	2	500
27	Akshay Kumar	9060070980	3	500
28	Syam Kumar	9262966673	3	500





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

29	Rohit Kumar	9860931972	3	500
30	Manish Kumar	7266060816	3	500
31	Ajit Kumar	6201777099	3	500
32	Rahul Raj	8235652715	2	500
33	Ratnesh Kumar	6205509331	3	500
34	Priyam Vishal	7808832753	2	500
35	Indrabhushan Kumar	6205907942	2	500
36	Bhairav Kumar	9508060960	2	500
37	Chandan Kumar	7353659344	2	500
38	Priyush 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	2	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
56	Kumar harsh	7488535815	2	500
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

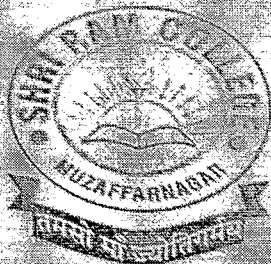
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*Dr. Nayeem*  
(Dr. Nayeem)  
Dept. of Agriculture





## SCIENTIFIC CULTIVATION OF MUSHROOM



**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

agricultural residues into food and manure. It is solid state fermentation system in which crop residues are converted into valuable food rich in microbial protein.

**Aim:**

1. 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 viruses, bacteria, and fungi.

**Health benefits of mushroom:**

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

- Regular use of it is known to protect heart health.
  - Helps lower blood pressure.
- Work Plan:** Project will start on the basis of Mushroom Cultivation for Income Generation. First to create awareness about the Mushroom among people. Second step to demonstrate the production technology to participants. Third step of project will evaluate the economy of Mushroom cultivation.

**Mushroom Cultivation Technology:**

- Conventional Method
- Improved cage Cultivation
- Outdoor Method
- Indoor Method
- Circular Method
- Indigenous Chinese Cultivation Practice

**Cultivation of Oyster mushroom:**

The oyster mushrooms can be grown indoors in cropping house where a temperature of 25-30 °C and relative humidity of 80-85 per cent can be maintained.



Paddy straw is used as the raw material which has to be soaked in water for 4 hours and boiled or steamed in autoclave for 45 minutes and shade dried until 65-70% moisture.

- Cylindrical beds are prepared using 90x30 cm polythene bags with a thickness of 80 gauge.

Paddy straw and spawn are filled as alternate 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 interval three harvests can be done.
- Total cropping cycle is around 40-45 days.

- The average 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 (autoclaved garden soil) is layered

on to the cut halves for 2 cm height and sprayed with water.

- The cased 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 Kumar Dean Agriculture

Dr. Nayeem Ali (HOD) 9412192801

Mr. Suraj Singh (Coordinator)

9558673601 sinrishabh24@gmail.com

Dr. Vikram Kumar (Sub-Coordinator)

9793729323 vkvk6096@gmail.com

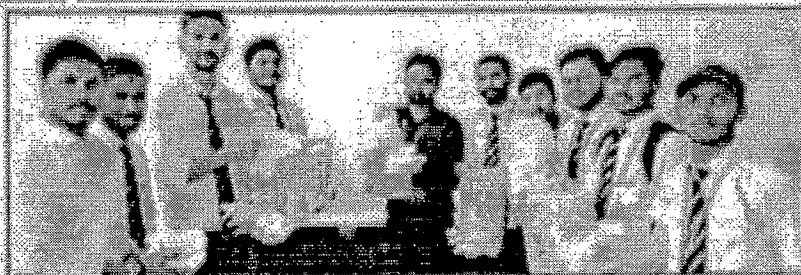
DEPARTMENT OF AGRICULTURE

SHRI RAM COLLEGE,

MUZAFFAR NAGAR-251001

*Suraj*



[illegible]

विशेष विज्ञान के विभागों के बीच  
संवाद को उत्तम रूप में प्रतिबिम्बित कर-  
ने के लक्ष्य के अन्तर्गत राष्ट्रीय स्तर पर  
एक ही राष्ट्रीय समन्वयन में राष्ट्रीय स्तर  
के लिए कार्यक्रमों को तैयार हो सके।  
सर्वोपरि उल्लेखित कार्य के अन्तर्गत प्रत्येक  
विशेष विज्ञान के क्षेत्र के लिए कार्य के  
अन्तर्गत प्रत्येक क्षेत्र के लिए कार्य के

1. **प्रस्तावित कार्य** : प्रस्तावित कार्य का विवरण यहाँ दर्शाया गया है।  
 2. **कार्य के लक्ष्य** : प्रस्तावित कार्य के लक्ष्य यहाँ दर्शाए गए हैं।  
 3. **कार्य के फायदे** : प्रस्तावित कार्य के फायदे यहाँ दर्शाए गए हैं।  
 4. **कार्य के खर्च** : प्रस्तावित कार्य के खर्च यहाँ दर्शाए गए हैं।  
 5. **कार्य के समय** : प्रस्तावित कार्य के समय यहाँ दर्शाए गए हैं।  
 6. **कार्य के स्थान** : प्रस्तावित कार्य के स्थान यहाँ दर्शाए गए हैं।  
 7. **कार्य के अधिकारी** : प्रस्तावित कार्य के अधिकारी यहाँ दर्शाए गए हैं।  
 8. **कार्य के निष्कर्ष** : प्रस्तावित कार्य के निष्कर्ष यहाँ दर्शाए गए हैं।

संसाधन-हीनता का सामना करने वाले क्षेत्रों में, विशेषकर जल संकट से निपटारे में, महिलाओं की सक्रिय भागीदारी आवश्यक है। महिलाओं को समुदाय के विकास में शामिल करने से न केवल उनके ज्ञान और अनुभव का उपयोग हो सकेगा, बल्कि वे अपने परिवारों और समुदायों के लिए बेहतर समाधानों का विकास कर सकेंगीं।

[illegible]



# स्नातक 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 ब्यूरो

मुजफ्फरनगर। श्रीराम कॉलेज के कृषि विभाग द्वारा स्नातक कृषि के छात्रों ने मिलकर मशरूम की खेती करने का एक सरल उपाय निकाला। मशरूम की खेती करने के लिए श्रीराम कॉलेज के निदेशक डॉ. अशोक कुमार, कृषि विभाग के विभागाध्यक्ष डॉ. नईम एवं डॉ. सुरेश कुमार सहायक अध्यापक के द्वारा छात्र एवं छात्राओं को मार्गदर्शन किया।

इस अवसर पर श्रीराम कॉलेज के निदेशक डॉ. अशोक कुमार ने बताया कि 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। हम बढ़ती हुई जनसंख्या को देखते हुए अनाज, सब्जी एवं फलों की पैदावार बढ़ाने के लिए नई तकनीक अपनानी होगी अन्यथा देश को एक सफल को सामना करना पड़ सकता है इस अवसर पर कृषि विज्ञान विभाग के विभागाध्यक्ष डॉ. नईम ने बताया कि हमारे देश में प्रति व्यक्ति की दर से सब्जी का उत्पादन काफी



कम है तथा हमें सब्जी उत्पादन में बढ़ोतरी करने के लिए मशरूम की खेती पर ध्यान देना चाहिए। मशरूम खान में स्वादिष्ट होने के साथ-साथ स्वास्थ्य के लिए बहुत ही उपयोगी है। इसमें प्रोटीन तथा अन्य गुणवत्ता के सूक्ष्म तत्व, विटामिन ए एवं एंटीऑक्सीडेंट भरपूर मात्रा में मिलते हैं। जो हमें रोगों से बचने का कार्य करते हैं। मशरूम की खेती बड़े सरल ढंग से अपने घर में खाली जगह में आसानी से की जा सकती है। बाजार में मशरूम का मूल्य लगभग ₹५० रूपय प्रति किलो है तथा एक मीटर से २-३ किलो मशरूम पैदा की जा सकती है। मशरूम की मुख्यकर इसका

पोषण बनाकर काफी औपयोग्य बनाई जाती है। इसीलिए यह व्यवसाय किसानों के लिए बहुत उपयोगी सिद्ध हुआ है इस अवसर पर श्रीराम कॉलेज के कृषि विभाग विभाग के सहायक अध्यापक डॉ. सुरेश कुमार ने बताया कि हम अपने घर के कमरे के अंदर भी इसे खेती कर सकते हैं और अच्छी उपज का आप का खाते बना सकते हैं। खाने योग्य मशरूम की दो प्रजाति बटन मशरूम एवं मशरूम आल्फाबिका प्रचलित है। इसके लिए सबसे पहली दूरी भूसा, पुआल या कम्पोस्ट तथा स्थान (मशरूम का बीज) की आवश्यकता होती है। पहले हम भूसा हुआ भूस, पुआल

या कम्पोस्ट को कोई भी फफूंदीनाशक से इसमें उपरिथात फफूंदी को नष्ट कर देते हैं। १६ घंटे बाद पोलिथिन में भरकर संपात को खुदाई कर दी जाती है। सफा सफाई का ज्यादा ध्यान रखना और कमरे में रोशनी नहीं होनी चाहिए। यह खेती लगभग ३० से ४० दिन में तैयार हो जाती है। इसकी कटाई के तुरंत बाद ही बाजार में बिक्री को भेज देना चाहिए। मशरूम की खेती का प्रस्तुतीकरण करते समय विभाग के डॉ. अंजलि जोषा, डॉ. विक्रान्त, डॉ. ओवेन्द्र, डॉ. अर्चना नेगी, आबिद, डॉ. राजकुमार, शानन, सुप्रत मोतिलाल आदि उपस्थित रहे।



(1m)

## Attendance of Enrolled students in mushroom training.

Month - February to March Date - 15-02-23 to 14-03-23

NAME OF STUDENTS	15	16	17	18	19	20	21	22	23	24	25	26	27	28	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Palak Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Runa Singh	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Anshu Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Sabita Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Shivani Supriya	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Pallavi Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Shanker Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Nikhil Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Abhishek Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Amit Kumar Mp	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Shubham Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Himalaya Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Nitu Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Pooja Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Chandan Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Rajnandani Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Niraj Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Manjay Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Kundan Sahani	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Suraj Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Irsad Alam	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Manish Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Anuj Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Prince Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Chhoti Kumari	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Dharmendra Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Akshay Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Syam Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Rohit Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Manish Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Ajit Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Rahul Raj	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Ratnesh Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Priyam Vishal	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Indrabhushan Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Bhairav Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Chandan Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Piyush Raj	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Raja Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Aashutosh Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Tushar Anand	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	
Shailendra Kumar	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P					P	P	P	P	



CERTIFICATE COURSE  
ON  
Scientific Cultivation of Mushroom

OFFERED BY  
DEPARTMENT OF AGRICULTURE  
SHRI RAM COLLEGE, MUZAFFAR NAGAR



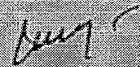
**Permission letter**

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**



## Notice

Date: 16/08/2022

This is hereby 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



Attendance list of participated student in "Scientific cultivation of Mushroom" 01.09.2022 to 20.09.2022

S. NO.	STUDENTS NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	AMAN KUMAR THAKUR	P	P	P		P	A	P	P	P	P	P	P	P	P	P	A	P		P	CL
2	ANIKET KUMAR	P	P	P		P	P	P	P	P	A		P	P	P	P	P	P		P	
3	ANJALI KUMARI	P	P	P		P	P	P	P	P	P		P	P	A	P	P	P		P	
4	ANKIT KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
5	ANKUSH KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	A	P	P		P	
6	ANTIMA KUMARI	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	CL
7	ANURAG	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
8	ARYAN MALIK	P	P	P		P	P	P	P	P	A		P	P	P	P	A	P		P	
9	ASHISH PAL	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
10	BABLU KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
11	BHAIRAV KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	CL
12	BRAJESH KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
13	CHANDAN KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
14	CHANDAN KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
15	CHHOTI KUMARI	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
16	CHINTU VERMA	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	
17	DHARMENDRA KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	CL
18	DHARMENDRA KUMAR	P	P	P		P	P	P	P	P	P		P	P	P	P	P	P		P	



## List of Enrolled Students in "Scientific cultivation of Mushroom" 01.09.22 to 30.11.22

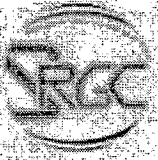
S. NO.	STUDENTS NAME	FATHER NAME
1	AMAN KUMAR THAKUR	HARSHIV THAKUR
2	ANIKET KUMAR	KADAM SINGH
3	ANJALI KUMARI	GHANSHYAM DAS
4	ANKIT KUMAR	MUKESH PANDIT
5	ANKUSH KUMAR	CHAITU MANDAL
6	ANTIMA KUMARI	HARENDRA PRASAD
7	ANURAG	GANGAVEER
8	ARYAN MALIK	NARAYAN SINGH
9	ASHISH PAL	SUBHASH
10	BABLU KUMAR	BIJENDRA MANDAL
11	BHAIRAV KUMAR	SHIVGANGA KUMAR
12	BRAJESH KUMAR	ASHOK KUMAR YADAV
13	CHANDAN KUMAR	VIJAY YADAV
14	CHANDAN KUMAR	VIJENDRA SAH
15	CHHOTI KUMARI	MANOJ KUMAR
16	CHINTU VERMA	SHAIENDRA 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	SHAIENDRA KUMAR
23	HARSH RAJ	RAM RAJEE SAHV
24	INDRA BHUSHAN KUMAR	BAIDYA NATH SINGH
25	JAY LALITA	RAVINDRA KUMAR



Preparation of Raw material for "Scientific cultivation of Mushroom" from 01.09.2022 to 30.11.2022







SRGC, Muzaffarnagar

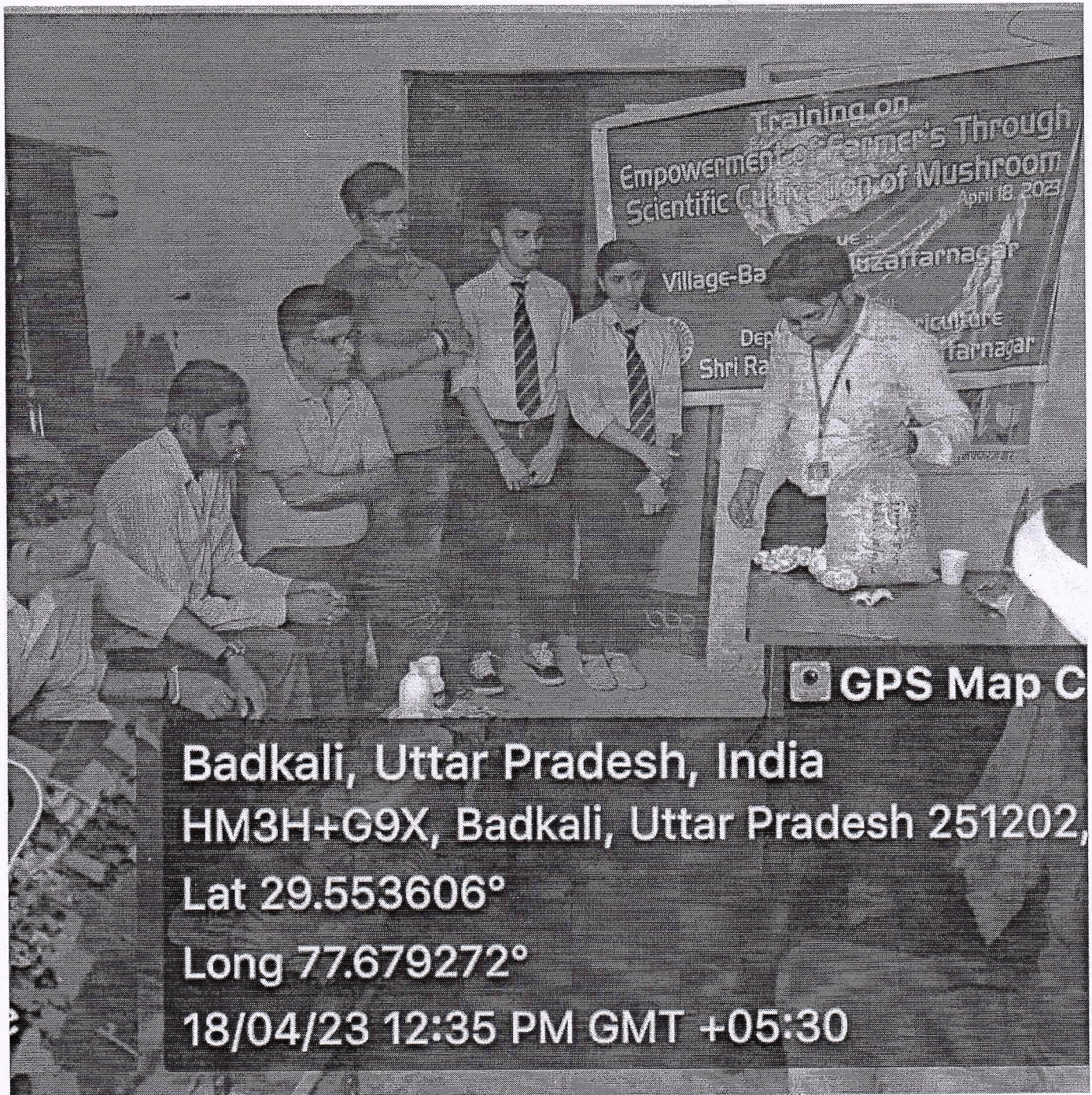
Mar 26 at 10:39 AM

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 को मार्गदर्शन किया।





"One Day training programme" on Empowerment of Farmers through Scientific Cultivation of mushroom" in Badkali U.P. → 18-April-2023.



Badkali, Uttar Pradesh, India

HM3H+G9X, Badkali, Uttar Pradesh 251202,

Lat 29.553606°

Long 77.679272°

18/04/23 12:35 PM GMT +05:30



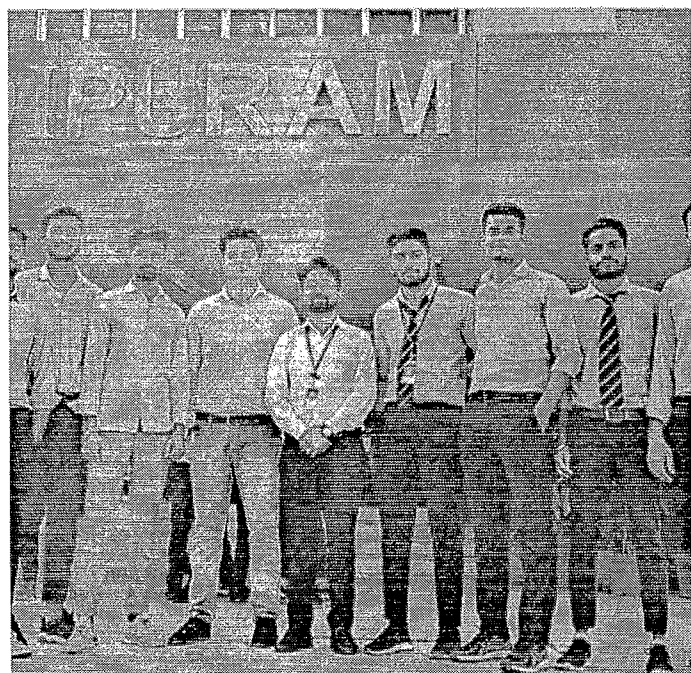
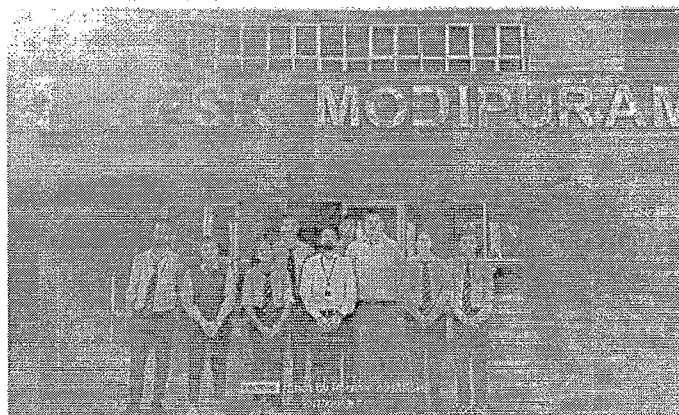
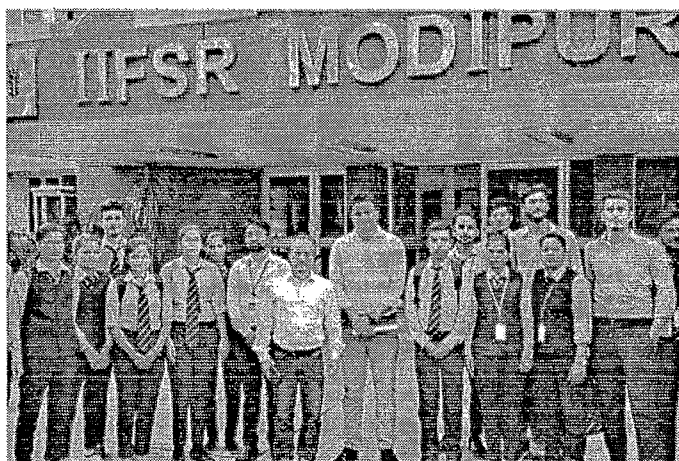
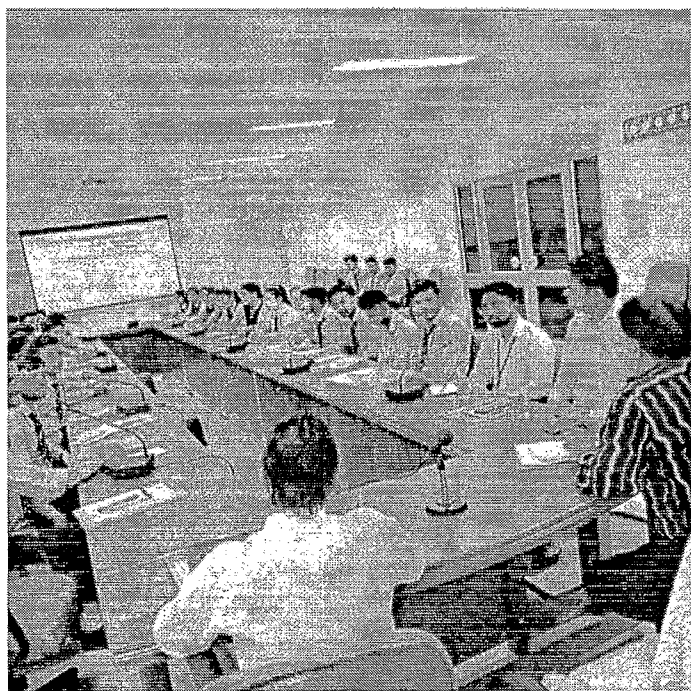




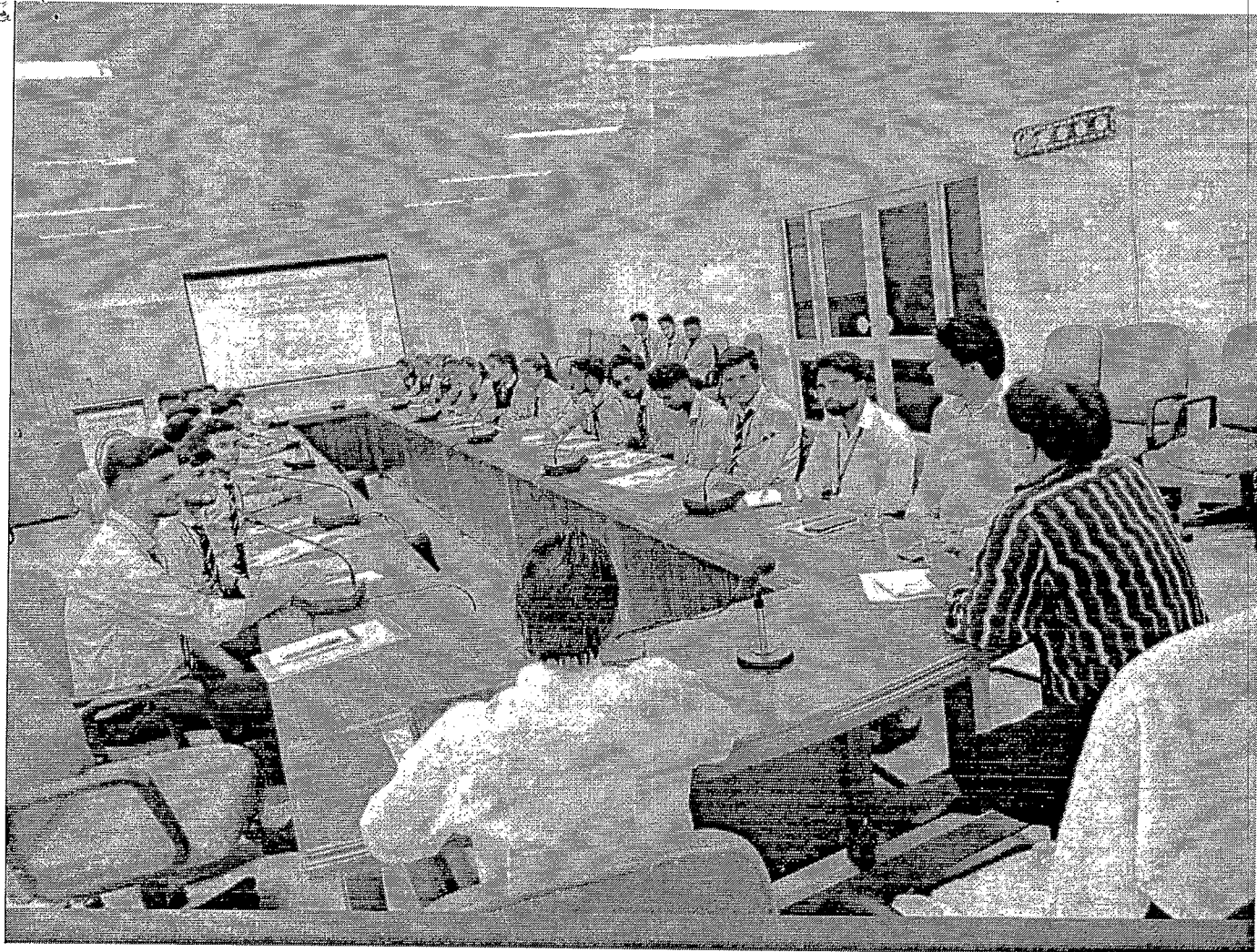




One Day training program Conducted by IIFSR  
Meerut , with Shriram group of college  
Muzaffarnagar "on Food Processing and value  
addition for doubling farmers Income"





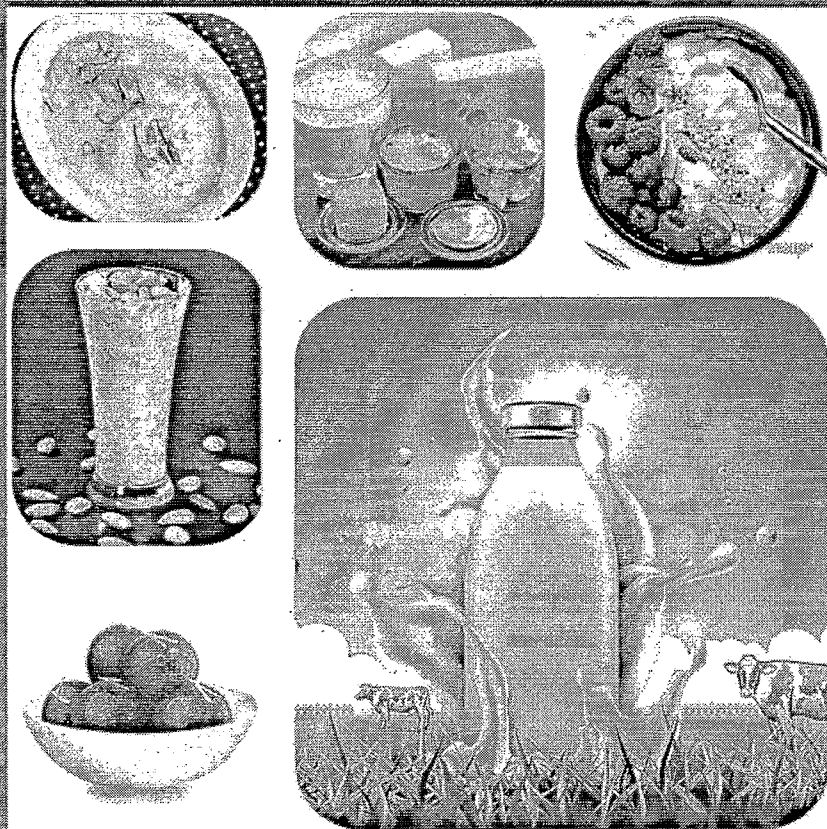




**NATIONAL SEMINAR  
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25 - 26 NOV., 2022**

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We wish him/her the best of success in his/her future endeavors.

(Hiroyuki Mihara)  
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# दो दिवसीय राष्ट्रीय सेमिनार का आयोजन

● जनसंघी संसदसभा, मुंबईकरना

श्रीराम कॉलेज के सभागार में कृषि विज्ञान एवं गृह विज्ञान विभाग के द्वारा स्वस्थ और स्वच्छ दुग्ध उत्पादों के निर्माण के लिए जनसंघी संसदसभा पर दो दिवसीय राष्ट्रीय सेमिनार का आयोजन किया गया।

सेमिनार के पहले दिन का शुभारंभ मुख्य अतिथि डॉक्टर सुखी मिश्र, संस्थान के चेयरमैन डॉ एस सी कुलश्रेष्ठ, सीनियर साइंटिस्ट के वी के बांगर अनुराधा वर्मा, श्री राम कॉलेज के निदेशक डॉ अशोक कुमार कृषि विज्ञान विभाग के विभागाध्यक्ष डॉ तर्पण, गृह विज्ञान विभाग की विभागाध्यक्षा डॉ श्वेता राठी द्वारा संयुक्त रूप से दी गई। प्रमुखता पर किया गया। सेमिनार की मुख्य अतिथि डॉक्टर सुखी मिश्र ने इस अवसर पर अपने संबोधन में कहा कि मानव जीवन में दुग्ध बहुत उपयोगी है, उन्होंने कहा कि इस से मनुष्य को अनेकों लाभ है। आज दुग्ध दिवस का उद्देश्य लोगों को दुग्ध पीने के लिए प्रेरित करना है। इसी साथ ही दुग्ध उत्पादों के उत्पादन को बढ़ावा देकर डेयरी उत्पादों और उनके क्षेत्रों को मजबूत करना भी है। डॉ एसएस कुमार ने बताया कि आजकल दुग्ध में बहुत बड़ी मात्रा में मिलावट की जा रही



है जिससे मानव जीवन बहुत अधिक प्रभावित हो रहा है। उन्होंने आगे कहा कि इस संयोगी का उद्देश्य दुग्ध में मिलावट और जनसंघी पहचान करने संबंधित तकनीकों के बारे में जन जागरूकता फैलाना भी है।

श्री राम गुरु और कॉलेज के संस्थापक चेयरमैन डॉ एस सी कुलश्रेष्ठ ने अपने संबोधन में बोलते हुए कहा कि दुग्ध अपने आप में एक संपूर्ण आहार है।

यह मनुष्य का जीवन में एक महत्वपूर्ण भूमिका निभाता है। उन्होंने दुग्ध में मिलावट को

समस्या को गंभीर बतते हुए कहा कि बढ़ती हुई जनसंख्या के लिए दुग्ध मांग पूरी करना बहुत मुश्किल है। इसीलिए दुग्ध में मिलावट की जा रही है। प्रोग्राम में डॉक्टर रविता राठी, डॉ विक्रान्त कुमार, डॉ जितेंद्र कुमार, डॉ अर्चना नेगी, डॉक्टर अंजली, राजकुमार, मुकुल मोतवा, सूरज सिंह, आशिष अहमद, सचिन कुमार, रवी पोसवाल, ईशा अरोरा, अर्चना सिद्धा, सोनिया अनसारी, चालन मायी, वापस मुंडीर, आयशा गौर आदि मौजूद रहे।



○ दूसरे दिन के दूसरे सत्र में पोस्टर प्रतियोगिता एवं मौखिक प्रतियोगिता में छात्रों ने दिखाया हुनर

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अनुसंधानकर्ता को प्रोत्साहित करने के लिए प्रो. अशोक कुमार शर्मा ने एक विशेष कार्यक्रम आयोजित किया। इस कार्यक्रम में उन्होंने अपने अनुसंधान के बारे में बताया और छात्रों को प्रोत्साहित किया। उन्होंने कहा कि अनुसंधान करना एक चुनौतीपूर्ण कार्य है, लेकिन यह बहुत ही महत्वपूर्ण है। छात्रों को प्रोत्साहित करने के लिए उन्होंने एक प्रतियोगिता आयोजित की। इस प्रतियोगिता में छात्रों को अपने अनुसंधान के बारे में लिखना था। प्रो. शर्मा ने कहा कि यह प्रतियोगिता छात्रों के अनुसंधान के प्रति रुचि को बढ़ावा देने के लिए आयोजित की गई है।

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## सरसों की फसल में एकीकृत नाशीजीव प्रबंधन

अरविन्द कुमार<sup>1</sup>,  
सूरज सिंह<sup>2</sup>,  
अनुज कुमार<sup>3</sup>

<sup>1</sup>(शोध छात्र) कीट विज्ञान विभाग, आचार्य नरेन्द्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय कुमारगंज, अयोध्या उत्तर प्रदेश  
<sup>2</sup>(शोध छात्र) चंद्रशेखर आज़ाद कृषि एवं प्रौद्योगिक विश्वविद्यालय कानपुर उत्तर प्रदेश

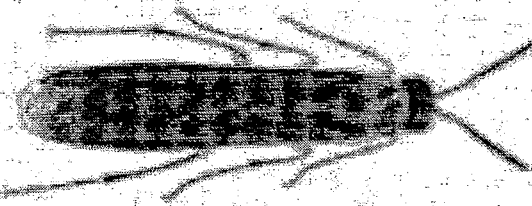
सरसों एक तेल वाली फसल है इसकी बुवाई रबी मौसम में करते हैं। भारत में राजस्थान के बाद सरसों के उत्पादन के लिए उत्तर प्रदेश पहले स्थान पर है। मध्य प्रदेश, हरियाणा, पंजाब, गुजरात आदि राज्यों में सरसों की खेती की जाती है। इसका वैज्ञानिक नाम ब्रेसिका कम्प्रेसिटिस है। सरसों के कई प्रकार होते हैं जैसे पीली सरसों, काली सरसों और भूरी सरसों। इसकी उपज के लिए दोमट मिट्टी उपयुक्त 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 तने और शाखाओं के उपरी भाग पर स्थित होते हैं। सरसों के बीज में 33 से 35 प्रतिशत तेल भी निकलता है। सरसों के तेल में आइसोथायो सामनेट होता है। सर्दियों में इसका साग भी लोग खूब चाओ से खाते हैं। इसके अलावा सरसों के बीजों को मसालों में भी प्रयोग करते हैं। सरसों में कीट पत्तों से अधिक नुकसान होता है जैसे आरा मक्खी, चित्रित बग माई आदि।

**प्रमुख कीट-  
आरा मक्खी-**

**पहचान एवं हानि-** इस कीट की सुड़ियाँ काले स्लेटी रंग की होती हैं। मादा वयस्क का पिछला भाग काफी विकसित एवं आसी जैसा होता है जिससे छेद करके पत्तियों में अंडे देती है। नवजात इल्ली हरे

रंग की होती है। इल्ली 16-18 मिमि लम्बी होती है। इसके 8 जोड़ी पैर होते हैं। इसका रंग गहरा होते जाता है। शरीर का पिछला भाग पर पाँच काली धारियाँ होती हैं। नई पत्तियों में छेद कर खाती है। इस कीट का लार्वा सूर्यास्त के बाद एवं प्रातः काल में

पत्तियों को खाता है एवं दिन में मिट्टी के ढेलों में छिपा रहता है। यह वानस्पति अवस्था पर 1 से 2 सुड़ियाँ प्रति पौधा देखने को मिलती हैं। यह पत्तियों के किनारे से अधवा पत्तियों में छेद कर खाती हैं। इनके तेज प्रकोप से पूरा पौधा पत्ती विहिन हो जाता है।



आरा मक्खी



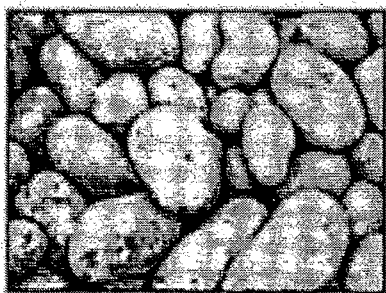
**नियंत्रण के उपाय-**

- गर्मी में गहरी जुताई करनी चाहिये।
- संतुलित उर्वरकों का प्रयोग करना चाहिये।
- आरा मक्खी की सुड़ियों को प्रातः काल इकट्ठा कर के नस्त कर देना चाहिये।
- प्रतिरोधक प्रजातियों का चयन करना चाहिये।
- इमिडाक्लोप्रिड 70 प्रतशत डब्लू 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 कुंभ (नवंबर, 2022), खण्ड 02 भाग 08,  
पृष्ठ संख्या 24-28



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

अरविन्द कुमार कीट विज्ञान विभाग, सूरज सिंह  
कीट विज्ञान विभाग एवं अनुज कुमार कीट विज्ञान विभाग

आचार्य नरेन्द्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय कुमायगंज,  
अयोध्या उत्तर प्रदेश

चंद्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय कानपुर उत्तर प्रदेश, भारत।

#### परिचय

आलू एक सबसे लोकप्रिय सब्जी 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 मौसम या शरद ऋतु में की जाती है।

इसकी उपज क्षमता समय के अनुसार सभी फसलों से ज्यादा है इसलिए इसको अकाल नाशक फसल भी कहते हैं। इसका प्रत्येक कंद पोषक तत्वों का भण्डार है, जो बच्चों से लेकर बूढ़ों तक के शरीर का पोषण करता है। बढ़ती आबादी के कुपोषण एवं मुखमरी से बचाने में एक मात्र यह मददगार है।

आलू कार्बोहाइड्रेट का सर्वोत्तम स्रोत है जो शरीर को ऊर्जा पहुंचाने का एक सबसे अच्छा माध्यम है। आलू में मुख्य पोषक तत्व पाए जाते हैं जैसे - प्रोटीन, विटामीन एवं खनिज पदार्थ प्रचुर मात्रा में पाये जाते हैं।

इस प्रकार प्रति 100 ग्राम खाने योग्य आलू के भाग में प्रमुख भौतिक तत्वों की मात्रा में कार्बोहाइड्रेट 22.9 ग्राम, प्रोटीन 1.6 ग्राम, विटामिन 'ए' 24.0 मिग्रा, विटामिन 'बी' 17.0 मिग्रा, विटामिन 'सी' 0.11 मिग्रा, ऊर्जा 10 कैलोरी एवं खनिज पदार्थ जैसे फास्फोरस 40 मिग्रा, लोहा 0.7 मिग्रा, तथा पोटेशियम 24.7 मिग्रा मिलता है। आलू में रेशा उच्च मात्रा 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 वसा, कोलेस्टेरोल एवं सोडियम बहुत कम होता है।

आलू में विटामिन 'सी' विटामिन 'बी 6' एवं पोटेशियम अधिक मात्रा में होता है। तापमान गिरने और लगातार मौसम में बदलाव से इस समय आलू की फसल में कई तरह के कीट व रोग लग जाते हैं, अगर समय से इनका प्रबंधन न किया गया तो आलू किसानों को नुकसान उठाना पड़ सकता है। जानकारी नहीं आयी है, लेकिन आने वाले समय में रोग





## Insect Pests of Okra and their Management

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### INTRODUCTION

That Okra (*Abelmoschus esculentus* L.) is one of the most common and widely grown vegetable in Pakistan. It considered as African tropical vegetable, many countries are cultivating okra crop in the world. Okra crop is known by in various names as okra, bhindi, ladyfinger and Quin ambo. Okra seeds are good source of protein, vegetable oil and rich in vitamin A and B, phosphorus and iodine, which play vital role in human diet. Okra is a powerhouse of valuable nutrients, soluble and insoluble fiber, which helps to lower serum cholesterol, risk of heart disease, keeps the intestinal tract healthy and decrease colorectal cancer. Okra crop is suffering from number of biotic and abiotic factors, including insect pests and diseases. It is attacked by a number of phytophagous insects, diseases and mites during different growth stages. Number of insect pest from sowing to harvesting such as Aphid, Jassid, Whitefly, Thrip, Spotted bollworms and Mites. Whitefly, *Bemisia tabaci* (Genn.) is the most important insect pest of okra crop. These pests are damaging crop by sucking the sap directly and by transmitting a large number of viral diseases indirectly. Jassid found a very damaging sucking insect pest of many 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 nymphs cause damage while sucking sap of plants. Due to sucking the color becomes grayish or by injecting toxic saliva into the plant tissues of okra crops and fall down (Crimpling) which is the characteristic feature of jassid attack.

### Shoot and fruit borer (*Earias vittella*):

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



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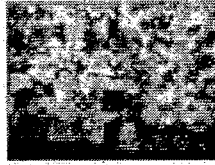
तुलसी प्राचीन समय से ही एक पवित्र चैत्य माना जाता है। जिससे हर घर में लगभग पूजा अर्पित होती है। तुलसी का आयुर्वेद में बहुत बड़ा स्थान है। तुलसी से बहुत सारे रोगों का उपचार किया जाता है। इसका प्रतिदिन सेवन करने से कई प्रकार के रोगों से राहत मिलती है। धार्मिक में इसे औषधीय खेती के रूप में किया जाने लगा है।

यह संसार में पूजा जाता है। इसकी कई प्रकार की जातें होती हैं जैसे ओसीमम, बोसिकम, पेटीसिमम, सेकेंडम, गिनिम, अपेकिमम। तुलसी लगाने के लिए खेत की दीवारों के लिए सबसे पहले खेत में प्रथम जुलाई से पहले 200 से 300 किग्रा/हेक्टर अर्द्ध फली हुई खाद की खेत में बिखार दें। इसके बाद मिट्टी में अच्छे तरह से घुलित गोबर/अंतिम जुलाई करते बच्चों और रासायनिक खाद जिसमें यूरिया 100 किग्रा और 500 किग्रा/हेक्टर सुपर फॉस्फेट और 125 किग्रा/हेक्टर पोटाश प्रति हेक्टर के हिसाब से एक सप्ताह पूरे खेत में बिखार दें। तुलसी के रोपण के 20 दिनों के बाद खेत में आवश्यक नमी का ध्यान रखकर 50 किग्रा यूरिया दें। दूसरी और तीसरी कटाई के बाद बाद भी 50 किग्रा यूरिया फसल की देवे। यूरिया को समान ध्यान रखें कि यूरिया पोषक को फली पर ना गिरा।

रासायनिक संरक्षक: तुलसी में अनेक जैव संक्रिय संरक्षक पाए गए हैं, जिनमें टैनिन, सेवोनिन, चारकोलाइड और फ्लेवोनाइड प्रमुख हैं। अर्थात् पूरी तरह से इनका विरोध नहीं हो पाया है। प्रमुख संक्रिय तत्व हैं एक प्रकार का पीत दहनशील तेल जिसकी भावात्मक स्थिति व समय के अनुसार बदलते रहते हैं। 0.1 से 0.3 प्रतिशत तक तेल पाया जाना सामान्य बात है। 'केल्विन ऑफ इन्डिया' के अनुसार इस तेल में लगभग 71 प्रतिशत टर्पेनॉल, बीस प्रतिशत यूबेनॉल मिथाइल ईथर तथा बीस प्रतिशत कार्बोनेल होता है। श्री तुलसी में रसायन की अपेक्षा कुछ अधिक तेल होता है तथा इस तेल का मापदंड मजबूत भी कुछ अधिक होता है। तेल के अतिरिक्त पत्तों में लगभग 63 मिलीग्राम प्रतिशत प्रोटीन पाए जाते हैं 2.5 मिलीग्राम प्रतिशत कैरोटीन होता है। तुलसी बीजों में हर पीले रंग का तेल लगभग 17.8 प्रतिशत की मात्रा में पाया जाता है। इसके घटक हैं कुछ सोयाबीन, अनेकों वसा, अम्ल, सुखाना, पॉलिटेक, स्टोरेक, अलिक, लिनेलक और लिनेलिक अम्ल तेल के अलावा बीजों में रसमय प्रमुख मात्रा में होता है। इस मूखिक के प्रमुख घटक हैं-मेन्थोल, हेमका यूबेनिक अम्ल और राइ। राइ लगभग 0.2 प्रतिशत होती है।

तुलसी की खेत में लगाए-सर्प में पौधे तैयार करके एक हेक्टर के लिए अच्छे किस्म का 300 या 400 ग्राम बीज से फिर सर्पों लगाने वाली जमीन को अच्छे जुलाई और खाद दे कर उसमें 1 मीटर की 8 से 10 कक्षाएँ 1 हेक्टर के लिए तैयार कर लें। कक्षाओं की जमीन से 75 सेमी ऊंचा खड्डा चौड़ा और बगल से बगल की दूरी 30 सेमी रखें ताकि खड्डाबंद की आसानी से निकल जा सके। प्रति कक्षा में 15 सेमी की दूरी से बीजों को

## लामदायक औषधीय खेती



लगाने, लगभग 100 बीज एक कक्षा में आ जायें। बीजों को मिट्टी में सड़क देने के बाद उसे गर्म पानी छिड़कते हों। 8 से 12 दिनों के बाद बीज अंकुरित हो जाते हैं। फिर लगभग समय पर निर्यात गुद्दे और सिंचाई करते हों। जब पौधे 12 से 15 सेमी की लम्बाई के हो जायें तो उन्हें सावधानी पूर्वक निकाल के रोने में रोने सकते हैं।

शाखाओं द्वारा रोपण: तुलसी का प्रसारण बीज के अलावा धनियाँ से भी किया जाता है। उसके लिए तुलसी की 10 से 15 सेमी की दूरी को काटकर उसे खेत में रखकर सुबह शाम हजारे से पानी देते हों। भूमि में एक गहरे के भीतर उसकी जड़ें विकसित हो जाती हैं और नई शाखा निकलने लगती हैं। उसके बाद उसे वहाँ से निकाल कर खेत में रोने सकते हैं।

पौधे की रोपाई: इस पौधे तुलसी में रोपण दो जगह तो उनमें से स्वस्थ पौधों को चुनकर के प्रथम सप्ताह में 45-45 सेमी की दूरी पर रोपें जायें। खेत आध आध और ओ.एस.सी. किस्म की तुलसी लग रहे हों तो 50x50 सेमी की दूरी बरकरार रखें। तुलसी की सिंचाई पौधे रोपने के बाद हल्की सिंचाई की आवश्यकता होती है। पौधों के दिनों में 15 दिन के अंतराल में सिंचाई करें। पहली फसल कटाई के बाद भी तुरंत बाद सिंचाई आवश्यक होती है। सिंचाई से पहले यूरिया नियमित रूप से दें। जब भी फसल कटाई हो उसके 10 दिन पहले सिंचाई देकर देते जायें।

खरपतवार नियंत्रण और खुराई निर्यात: तुलसी के खेत में बहुत प्रकार के खरपतवार लग जाते हैं जो फसल की पैदावार में दिक्कत करते हैं और पोषक तत्वों का नाश करते हैं इसलिए उन्हें रोपाई के 20 दिन बाद शाखावारी की निगरानी लगा करिए फिर लग भी खरपतवार उगे तो उन्हें गहरा काटें। यदि आप एक से अधिक फसल लेना हो तो 10 दिन के अंतराल में खरपतवार निकालते रहना चाहिये।

फसल की कटाई: तुलसी की फसल में कटाई का बहुत महत्व होता है क्योंकि कटाई का सीधा असर तेल की मात्रा पर पड़ता है। इसलिए जब पौधों की प्रतीति का रंग मूला हूँ तो जायें तो कटाई कर लेना चाहिये। फसल आने के बाद तेल की मात्रा और गुणवत्ता पर असर पड़ता है। कटाई हमेशा ऊपर भाग में करना चाहिए ताकि फिर से नए शाखाएँ और पत्ते आ सकें। कटाई हमेशा दायाँ की मदद से काटना चाहिये। तुलसी की खरपतवार किस्म सीरी R.R.L.O.P है जिसकी तेल या तबू कटाई हो सकती है। जिसकी पहली कटाई जून और दूसरी कटाई दिसम्बर और तीसरी नवम्बर में की जाती है। इस किस्म की फसल की कटाई सबसे से 30 सेमी ऊपर से काटना चाहिये।

तुलसी की अग्रिम प्रक्रिया: इस विधि में फसल से तुलसी का तेल निकाला जाता है जिसका प्रयोग बहुत से माध्यम वारा, सल्फर, मुल्ला आदि में तुलसी का फलनर साने के लिए उपयोग होता है। आसमन हमेशा ताजा फसल से ही किया जाना चाहिये ताकि तेल और गुणवत्ता अधिक मिले। एक हेक्टर तुलसी की फसल से तककैबन 120 किलोग्राम तक तेल निकाल सकता है।

असमन विधि से तेल निकलने के बाद बची हुई बीजों से खाद और बची हुई लकड़ी जलने के काम आ जाती है।

तुलसी का उत्पादन: तुलसी की खेती करने से प्रथम वर्ष में किसान को 400 किग्रा और उसके बाद वाले वर्षों में लगभग 700 किग्रा तक की उपज मिलती है।

संस्कार की तरफ से सावधानी: तुलसी की खेती पर कई रोगों में शास्त्र द्वारा अनुदान भी दिया जाता है। अनुदान के लिए आप अपने जिले के स्थानीय विभाग में सम्पर्क कर सकते हैं।

तुलसी के फायदे और उपयोग: तुलसी का औषध भाग के लगभग हर घर में पाया जाता है। हम इसे खाने करते हैं और इसकी पूजा भी करते हैं। यह केवल हमारे आस्था का प्रतीक नहीं है, बल्कि तुलसी के पौधे में कई औषधीय गुण भी पाए जाते हैं। आयुर्वेद में भी तुलसी के कई उपयोग बताए गए हैं। तुलसी के पौधे के कई उपयोग हैं और इसके फायदे हैं। जिससे हमें कई रोगों से राहत में सहायता मिलती है। और यह हमें डॉक्टर के पास जाने से बचाता है। सबसे बड़ी बात यह है कि तुलसी का कोई साइड इफेक्ट नहीं है और इसका उपयोग किसी भी उम्र का व्यक्ति कर सकता है। तो आइए जानें कि तुलसी के कुछ-कुछ फायदे हैं और इसका उपयोग किस-किस तरह से किया जा सकता है:-

1. तुलसी के बीज का चूर्ण बनाकर दही के साथ खाने से खुनी भ्रूणसंर रोग हो जाता है।
2. तुलसी छत्ता पिला हुआ पत्ते छेरे से कई बीमारियाँ दूर हो जाती हैं और कई बीमारियाँ हमारे दूर होती हैं।
3. मधु (शर्करा) में तुलसी को पानी का रस मिलाकर पचने से पचाए जाना बंद हो जाता है।
4. तुलसी के कुछ पत्तों की ससो जल में भून लीजिए और फिर इससे लहसुन का रस मिलाकर कम में डाल दीजिये। इससे कान के दर्द में आराम मिलेगा।
5. अगर आपको अँधेरे में चलने की समस्या है, तो आपको हर रात में कानें तुलसी का अर्क 2 बूँद ओंछो में डलना चाहिये।
6. आपको अक्सर सिर दर्द की समस्या रहते हैं, तो दवा खाने से बचें। बल्कि आप तुलसी का काष्ठ पिये।
7. अगर आपको सांता से शोष आते हैं, तो तुलसी के कुछ सूखी पत्तियों को ससो जल में भिजकर गूँधने से आपका समस्या दूरी हो तक कम हो जायें। यह वरक पत्रिका में भी उपलब्ध है।
8. दाढ़, खुसकी या लम्बा की इन्फेक्शन में तुलसी के अर्क को उस स्थान पर लगाने से फायदा पड़ता है।
9. अगर आपको गले में संक्रमण हो गल हो, तो आपको हर दिन तुलसी के कुछ पत्ते चबाकर खाने चाहिये।
10. दिन में दो बार 10-12 तुलसी के पत्ते खाने से तनाव पकड़न नहीं करता है।
11. दिन लोगों को दिल की बीमारियाँ हो, उन्हें भी तुलसी पत्ते का निर्घण्ड सेवन करने चाहिये।
12. जिसके गुदे में पदारी हो गल हो, उसे रुद्ध में मिलाकर तुलसी के अर्क का लगाव सेवन करने चाहिये। छः महीने में असर दिखना शुरू हो जायेंगा।
13. शरीर, अंदर और तुलसी को मिलाकर बनाया गया काढ़ा आकारिण, रमा, कफ और सर्दी में लभदायक है।
14. ज्वर, लीक और तुलसी के पत्तों को मिलाकर बनाया गया काढ़ा इन्फेक्शन में शहत देता है।
15. तुलसी का अर्क पत्ते से सुखर कम होता है।
16. जिनके यकृत जलने का बीज हो, उन्हें तुलसी के 10-12 पत्तियों को एक कप दूध में ज्वालाकर पीना चाहिये।





## Green Manuring

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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:

1. **Green manuring in-situ:** Green manuring in-situ is the practise of growing green manure crops directly in the field, either as a standalone crop or as an intercrop with the primary crop and burying them there. E.g.: Sannhemp, Dhaicha, Pillipesara, Shervi, Uri, 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, karanj.



## Chapter 17

# Methods of Storage and Different Storage Structures

Vishnool Omar<sup>1\*</sup>, Arvind Kumar<sup>2</sup>, Ravi Kumar Rajak<sup>3</sup>, Shivam Kumar<sup>4</sup>, and Suraj Singh<sup>5</sup>

<sup>1,2,3</sup>Ph.D. Scholar, College of Agriculture,

<sup>4,5</sup>M.Sc. Research College of Agriculture,

Department of Entomology, Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh

### 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<sup>5</sup>. 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

183

### 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 Farming**

#### **Authors**

##### **Jay Nath Patel**

Ph.D. Research Scholar, Department of Agronomy, Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut, Uttar Pradesh, India

##### **Mohd Shah Alam**

Ph.D. Research Scholar, Department of Agronomy, Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut, Uttar Pradesh, India

##### **Roop Kishor Pachuari**

Ph.D. Research Scholar, Department of Agronomy, Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut, Uttar Pradesh, India

##### **Suraj Singh**

Department of Entomology, Acharya Narendra Deva University of Agriculture & Technology, Ayodhya, Uttar Pradesh, India

##### **Rajaram Choudhary**

Ph.D. Research Scholar, Department of Agronomy, Sardar Vallabhbhai Patel University of Agriculture & Technology, Modipuram, Meerut, Uttar Pradesh, India



# BIOVED RESEARCH INSTITUTE OF AGRICULTURE & TECHNOLOGY

(Research Institute of Bioved Research Society)

Recognised & Registered by Govt. of India, Min. of Sci. & Tech., Min. of Finance, Min. of Home Affairs, and  
Ch. Charan Singh Univ., Meerut M.G.C.G. Viswavidyalaya, Satna, M.P., JSD College (University of  
Allahabad), Prayagraj, IINRG (ICAR) and U.P. Rajarshi Tandon Open Univ., Prayagraj

To,

Date: - 27/05/2022

Mohd Shah Alam

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 24<sup>th</sup> 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 28-29<sup>th</sup> May 2022.

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

Yours sincerely

Dr. B.K. Dwivedi

Reg. Office: 252AAA, Om Gayatri Nagar, Tellarganj, Prayagraj-211004, U.P. India




Corres. Address: 103/42, Motilal Nehru Road, (Near Prayag Station), Prayagraj-211002, U.P. India

Extension wing: Bioved Krishi Pradyogiki Gram, Ram Van Gaman Road (Bhagolpur Chaukaha) Post Shringverpur  
Prayagraj

Ph: 2465678, 2467122, FAX: (0532) 2465959, Mobile-09839337124

Email: bioveddirector2011@gmail.com, bioved2003d@yahoo.com Website- www.bioved.co.in



<p align="center"><b>प्रवेश परीक्षा परिणाम / Entrance Test Result</b>  <b>उत्तर प्रदेश संयुक्त कृषि एवं प्रौद्योगिकी प्रवेश परीक्षा (यूपीकैटेट)-2023</b>  <b>Uttar Pradesh Combined Agriculture &amp; Technology Entrance Test (UPCATET)-2023</b></p>		
<p>आचार्य नरेन्द्र देव कृषि एवं प्रौद्योगिकी विश्वविद्यालय, कुमरगंज, अयोध्या उत्तर प्रदेश  वेबसाइट: <a href="https://upcatetexam.net">https://upcatetexam.net</a>  हेल्पलाइन नम्बर: +91-8090030535  ईमेल आईडी: <a href="mailto:help@upcatetexam.net">help@upcatetexam.net</a></p>		<p>Acharya Narendra Deva University of Agriculture &amp; Technology  Kumarganj, Ayodhya, Uttar Pradesh  Website: <a href="https://upcatetexam.net">https://upcatetexam.net</a>  Helpline No: +91-8090030535  E-Mail Id: <a href="mailto:help@upcatetexam.net">help@upcatetexam.net</a></p>
यूजर आईडी/पंजीकरण संख्या/ USER ID/Registration No: <b>248756</b>	रोल नम्बर/ Roll No: <b>240433</b>	जन्मतिथि/ Date of Birth <b>12/04/1996</b>
प्रोग्राम/ Programme: <b>Ph.D</b>	ग्रुप ऑफ पेपर/Group of Paper: <b>PDA</b>	ग्रुप कोड/Group Code: <b>14</b>
<b>पी.एच.डी. विषय एवं कोड/ Ph.D. Subject &amp; Code: 111-Entomology-PDA</b>		
अभ्यर्थी का नाम/ Candidate's Name	<b>SURAJ SINGH</b>	 <p align="center">SURAJ SINGH 16/04/2023 574972679370</p>
पिता का नाम/ Father's Name	<b>SHIV NANDAN SINGH</b>	
श्रेणी/ Category	<b>UPSC</b>	
दिव्यांगजन/ Person with Disability (PWD)	<b>No</b>	
स्वतंत्रता संग्राम सेनानी के आश्रित/ Dependent of Freedom Fighter (FF)	<b>No</b>	
सैन्य कर्मचारी के पुत्र अथवा पुत्री/ Son or Daughter of Defence Person (DP)	<b>No</b>	
स्पोर्ट्स पर्सन/ Sports Person *	<b>No</b>	
<p>बॉन्दा, अयोध्या, कानपुर, मेरठ कृषि विश्वविद्यालय में कार्यरत किसी कर्मचारी के पुत्र/ पुत्री अथवा पति/पत्नी हैं।  Son/daughter or husband/wife of Employee in Banda, Ayodhya, Kanpur, Meerut Agriculture university (UE)</p>	<b>N/A</b>	
<b>Result Status = Qualified</b>		
GROUP RANK	<b>27</b>	
GROUP CATEGORY RANK	<b>4</b>	
<p><b>For counselling related information, kindly visit UPCATET-2023 official website <a href="http://www.upcatetexam.net">www.upcatetexam.net</a> regularly.</b></p>		

Print Result

Certificate No. 466 - PB(PSSP-1)/20-21



**NATIONAL INSTITUTE OF PLANT HEALTH MANAGEMENT**  
Rajendranagar, Hyderabad - 500 030 (India)  
Department of Agriculture, Cooperation & Farmers Welfare  
Ministry of Agriculture & Farmers Welfare  
Government of India




राजस्थान  
NIPHM



**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.

  
Dr. J. Alice R.P. Sujeetha  
Director (Plant Biosecurity)

  
G. Jayalakshmi I.A.S.  
Director General

PBD PSSP 1811 1712 2020 0003



### 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. Arehna, 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

  
Dr Nayeem  
HOD



To  
The Dean, Agri.  
SRC, M.Nagar  
Through HOD  
Sir,

As per your direction ICAR accreditation of B.Sc 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	Name of Committee members
CoS Committee	Mr. Rajkumar and Dr. Vikrant Kumar
Time table Committee	Dr. Anjali Jakhar and Suraj Singh
Laboratory Committee	Mr. Aabid Ahmad and Sachin Sahu
Stock Register/ other register Committee	Mr. Suraj Singh and Mr. Vikas
Faculty requirement procedure	Dr. Nayeem and Dr. Vikrant Kumar

The chairman of committee are requested that please complete the work up to 1/10/22

Thanks and regards

Submitted to HOD for necessary action

Forwarded to Dean for approval

Signature of Dr. Vikrant Kumar

Signature of HOD  
Approved

For further action

Signature of Dean COA

Yours Faithfully  
Dr. Vikrant Kumar



Total Exp = 1 year 7 Month  
Exp. SRE = 1 year 7 Month

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

Name of College Shri Ram College (Mzn) Department Agriculture Designation Assistant professor

1- Name Raj Kumar 2- Date of Birth 14/07/1990 3- Date of joining 28/01/2022

4- Previous Experience (in years): Teaching 1 year 7 month (Teachy) Industry

5- Specialization Agronomy 6- Aadhar No. 516202203205 7- PAN No. FEKPK0315B

8- Address Vill Rajpura, Post office Bahuri, Baridilly, Pin Code - 242201

Mob No 9410037649 Whatsapp No 7409414672 E-Mail raj.kimargangwar142@gmail.com

9- Teaching performance:

Papers Taught in session Odd-Even sem	No. of Periods						Total Stdnts Appd in Exam	No. of Students			Passed With B/CO Paper	Pass %	
	Allotted Per week			Taken in Odd/Even Sem.				Clear Passed				Clear	H/ COP
								Percentage					
Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given	L	T	P	L	T	P	≥ 60	≥50/ <60	>40/ <50				
Short Title/Code													
Fundamental of Agronomy	1+1	3+3		1+1	3+3	0	155	98%	2%	NIL	0	100	0
Cropproduction technology	1+1	3+3		1+1	3+3	0	122	99%	1%	NIL	0	100	0
Weed management	1+1	3+3		1+1	3+3	0	109	98%	2%	NIL	0	100	0
Organic farming	1+1	3+3		1+1	3+3	0	155	97%	3%	NIL	0	100	0
Cropproduction technology	1+1	3+3		1+1	3+3	0	122	98%	2%	NIL	0	100	0
Agro-meteorology	1+1	3+3		1+1	3+3	0	122	98%	2%	NIL	0	100	0
Teaching in PG and Other Departments													
Total Nos.													

10- Regularity and Punctuality: Leave availed

11

Late Arrivals

Nil

Absence

Nil

11- Details of Course teaching plan, synopsis of lectures and reading lists supplied to students (Attach the Detail) -

12- Details of participation in the following:

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

Odd Sem

Even Sem/Annual

Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
Internal & Practical		Internal	
Internal & Practical			
Practical Exam			
Practical Exam			
Student Project			

13- Details of Innovations/Contribution in Teaching, during the year : (brief overview)

(i) Design of curriculum

(ii) 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)

(vii) Any other

Black board Power point

Internal Exam, PPT, Practical.

PPT+PDF Behaviour

Bihar Student Co-ordinator in the Department  
ELP, RAWE etc. (2022-23)

= members of organize better together programme

Page 1 of

→ members Cultural com. Co-ordinator

→ members Earth day Poster Competition

→ One time Practical Exam Controller & Co-ordinator.

→ Date fix of External Practical Examiner.

Main Gate Duty and Petrolling Duty

→ ICAR accreditation related file work.

→ Student Visit Kishan Mela of Muzaffarnagar -



14- Use of ICT (Information & Communication Technology):

Yes with PowerPoint presentation

15- Improvement of Professional Competence: indicate no. in below table respectively

WhatsApp group, PDF,

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
	✓	✓	✓			✓		✓	✓

NOTE: Ph.D. admission in this year of CC University Meerut.

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)

At the beginning

During the year

Completed during the year

(ii) No. of research papers (enclose list) Published

Accepted

Communicated

(iii) Research Projects: (a) Title: Synopsis Effect on laddy crop yield due to weeds (M.M)

(b) Duration

(c) Funding Agency

(iv) Details of Conferences ( ), Seminars ( ), Symposia ( ) organized (Attach the detail) ① Seminars

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies ( ), Editorship of Journals ( ) etc (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (yes) (c2)

(b) National Literacy Mission/ RUSA ( )

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution Research, Teaching, NAAC, ICAR

(ii) Co-curricular activities Seminars, workshop, Poster Competition, ED Programme, Colours Programme.

(iii) Enrichment of campus life (hostels, sports, games, cultural activities)

(iv) Students welfare and Discipline

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

20- Assessment:- Steps taken for the evaluation of the course programme taught Unit test, Assignment, PPT

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

Raj Kumar

(Full Signature of the Teacher)

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
1	Teaching Performance	Teaching Performance of Rajkumar is good.
2	Regularity and Punctuality	Regular & Punctual time of class.
3	Details of Course teaching plan, synopsis of lectures and reading lists supplied to students	PPT, notes & PPT etc.
4	Details of participation	Satisfactory.
5	Details of Innovations/ Contribution in Teaching	- Satisfactory.
6	Use of ICT	V. Good.
7	Improvement of Professional Competence	Good.
8	Research Contributions in session	- Satisfactory.
9	Extension Work/ Community Service	Transfer the Technology to
10	Professional Organisations	Satisfactory.
11	Assessment	Good.
12	General Data	Good.

#### General Remarks of HoD

Mr. Rajkumar have not qualify. a best teaching methodology with Projector classes.

Signature  
S/B/P3

Signature

#### General Remarks of Director

He is a good human being. Having good relation with other staff. Sincere and hardworking.

Signature

#### 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)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
2	Decency of Dress		8
3	Facial Expressions		8
4	Quality of Voice		9
5	Confidence Level		8
6	Use of White Board/ Black Board		8
7	Use of ICT/ Projector		9+1=10
8	Pre-Class preparation		8
9	Skill of Putting Examples		7
10	Generating Queries		8
11	Class Discipline		7
12	Punctuality		8
13	Generating Interest in Subject		8
14	Encouraging Participation		8
15	Guidance and Advice		7
16	Inside Class Motivation		7
17	Outside Class Motivation		7
	% Score	%	$\frac{135}{100} \times 100 = 135\%$ $= 80\%$





# Shri Ram College

## Muzaffarnagar

### Certificate

This is to certify that Dr/Mr/Ms.....*Raj Kumar*.....  
contributed as .....*Organising Committee*..... in organising two days  
National Seminar on "Advance Approaches for Formulation of Healthy & Hygienic Milk Product"  
organised by Faculties of Home Science & Agriculture, Shri Ram College, Muzaffarnagar held on 25th - 26th  
November 2022.

*(Signature)*  
(Dr Ashok Kumar)  
Chairman

*(Signature)*  
(Dr Shweta Rathi)  
Orgn. Secretary

*(Signature)*  
(Dr Naveem Ali)  
Convenor

*(Signature)*  
(Alina Siddiqui)  
Co-convenor

# 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. .... *Raj Kumar* .....  
*Assistant Professor, S.R.C., 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.<sup>th</sup> - 09<sup>th</sup> October, 2022 at  
Swami Vivekanand Subharti University, Meerut.

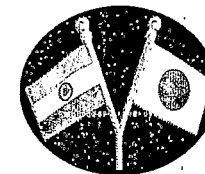
Prof. Mahavir Singh  
Organizing Co- Chairman

Prof. Bijendra Singh  
Organizing Chairman





Indo - Japan  
International Seminar  
on



**“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 Kumar*..... has  
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

三原 陽之

(Dr S G Kulshreshtha)

Founder Chairman  
Shri Ram Group of Colleges, Muzaffarnagar, India

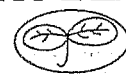
Organised by



**Shri Ram Group of Colleges, Muzaffarnagar**



**Japan International Cooperation Agency (JICA)**



**Taisei Kougyou Co. Ltd.**



**\* E-Square INC.**



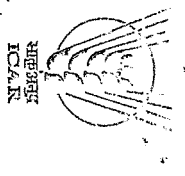
**\* Original Engineering Consultants Co. Ltd.**



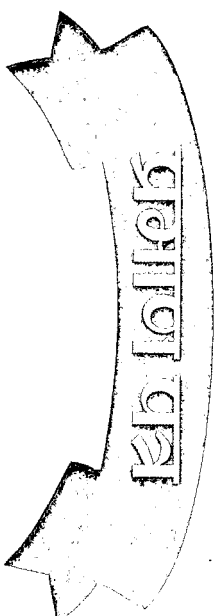
**\* TARA**



# कृषि विज्ञान केंद्र, मुजफ्फरनगर-II



सरदार वल्लभभाई पटेल कृषि एवं प्रौद्योगिक विश्वविद्यालय, मेरठ



प्रमाणित किया जाता है कि श्री/सुश्री राज कुमार 5/0 श्री ठाकुर दास कक्षा सहायक प्रोफेसर

द्वारा कृषि विज्ञान केन्द्र, मुजफ्फरनगर-II के द्वारा, श्री राम गुप ऑफ कॉलेज, मुजफ्फरनगर में दिनांक 02.11.2022 को आयोजित फसल अवशेष प्रबंधन परियोजना के अन्तर्गत जागरूकता कार्यक्रम में कृषि विज्ञान केंद्र द्वारा फसल अवशेष प्रबंधन प्रतियोगिता में

प्रथम स्थान प्राप्त किया है।

हम इनके उज्ज्वल भविष्य की कामना करते हैं।

*Princ*

प्रभा शंकर तिवारी  
परियोजना अन्वेषक

ओमप्रकाश सिंह  
प्राध्यापक एवं अध्यक्ष



### Notice

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

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

Dr Nay

### Proceeding of Meeting

A meeting was organized in the office of Dean, Faculty of Agriculture, Shri Ram College on 22.06.2023 at 11:00 AM. The following were presents

S.No	Name	Designation
1	Dr. Ashok Kumar	Dean and Chairman
2	Dr. Naveen	Member and Secretary
3	Dr. Vikram Kumar	Member
4	Dr. Anjali Jha	Member
5	Dr. Arvind Negi	Member
6	Dr. Jitendra Kumar Singh	Member
7	Mr. Suraj	Member
8	Mr. Abid Ahmed	Member
9	Mr. Mukul Motia	Member
10	Mr. Raj Kumar	Member

The following decisions were taken

- Mr. Raj Kumar, Dr. Anjali Jha & Mr. Suraj are added in the list of examination coordination unit
- Mr. Raj Kumar will coordinate to Practical Examiner
- Dr. Anjali will look Office work
- Mr. Abid will look after the work related to T&A/DA and other related work for examiner for practical
- Dr. Arvind Negi, Dr. Vikram, Dr. Jitendra Kumar and Mr. Abid will look students discipline maintain before start the examination and after examination
- Seating arrangement, fees collection, attendance will be carried out by respective room incharge
- Head office work and examiner breakfast and lunch will be done by Mr. Mukul Motia
- All the room incharge will take the attendance of their room and will make contact with students who is absent within 15 minutes of start of exam.
- From the commencement of the practical exam till the practical marks are uploaded online, viva voce and Exam copy and award list packaging, it will be the responsibility of the subject expert.
- There will be no duty in the examination hall at the time of subject specialist's examination.
- Subject expert can take help of any other teacher if required.
- At the time of viva, the subject expert will be with the examiner, the rest of the time the duty of other faculty will be there.
- In case of any problem, inform the Director immediately.

Dr. Naveen

Member and Secretary

Copy to:

- Dean College of Agriculture for his information and necessary action.
- Notice board

16/23



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	Name of Committee members
COS Committee	Mr. Rajkumar and Dr. Vikrant Kumar
Time table Committee	Dr. Anjali Jachar and Suraj Singh
Laboratory Committee	Mr. Ashid Ahmad and Sachin Sahu
Stock Register/ other register Committee	Mr. Suraj Singh and Mr. Vikas
Faculty requirement procedure	Dr. Naveen and Dr. Vikrant Kumar

The chairman of committee are requested that please complete the work up to 1/10/22

Thanks and regards

Yours Faithfully

Dr. Vikrant Kumar

Submitted to HOD for necessary action

Signature of Dr. Vikrant Kumar

Forwarded to Dean for approval

Signature of HOD  
Approved

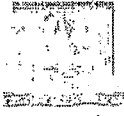
Signature of Dean COA

HOD for further action

JURY TEAM		HEAD TEAM		DIRECTOR TEAM		MAIN GATE TIME	MAIN GATE DUTY TIME
10:00-10:45	Ms. Shubini Mishra [Bio Sci.]	Basic Sci., Engineering [CSE]	B. Arch, Management	Dr. Manoj Dhimar		08:50-10:00	Mr. Sandeep Khatu [Edu.]
	Mr. Ajay Kumar [P.A.]						
10:45-11:30	Mrs. Teena Aggarwal [Edu.]	B.B.A., B.Com	B.J.M.C., B.Tech [EE]	Mr. Nishant Rathi		10:00-10:50	Mr. Vinay Sharma [CA]
	Mr. Dolly Devi [Edu.]						
11:30-12:15	Mrs. Ritu Gang [Edu.]	Agriculture, Bio Sci.	Pharmacy, B.Tech [M.E.]	Mr. Ashish Kumar		10:50-11:40	Mr. Anil Kumar [AG]
	Mr. Sagar Shukla [Mgmt]						
12:15-01:00	Mrs. Soniya Gaur [Law]	Com. Application Education	B.I.A., B.Tech [C.E.]	Dr. Ashok Kumar		11:40-12:30	Mr. Bhuvan Prasad Singh [Edu.]
	Mr. Mukesh Chaudhan [Mgmt]						
01:45-02:30	Mr. Raj Kumar [AG]	Homesci., B.Voc.		Dr. Priyanka Mishra		01:00-01:50	Mr. Praveen Kumar [CA]
	Mr. Samrat [Yoga]						
		Law, B.Tech		Dr. Girendra Gautam		01:50-02:40	Mr. Anil Rajgopal Singh [MBA]
				Dr. Suchitra Dyogi		02:40-03:30	Dr. Rishabh Bhardwaj [Bio Sci.]

19.7.23





# चौ० चरण सिंह विश्वविद्यालय, मेरठ

## Ch. Charan Singh University, Meerut

पत्रांक : शोध/ 3082  
दिनांक : 15.05.2023

### विज्ञप्ति

यू०जी०सी० पीएच-डी० रेग्युलेशन, 2016 एवं चौ० चरण सिंह विश्वविद्यालय शोध अध्यादेश, 2022 में निहित प्रावधानों के अंतर्गत विषय-शास्त्र विज्ञान में पीएच-डी० में प्रवेश हेतु अर्ह अभ्यर्थियों से इस कार्यालय पत्र संख्या-शोध/1405 दिनांक 09.09.2022, शोध/2259 दिनांक 11.01.2023 एवं विज्ञप्ति संख्या शोध/2520 दिनांक 09.02.2023 द्वारा ऑनलाइन आवेदनफार्म प्राप्त किये गये थे। अवमुक्त श्रेणी के अभ्यर्थियों को छोड़कर अन्य की प्रवेश परीक्षा दिनांक 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 चौ० चरण सिंह विश्वविद्यालय, मेरठ में पीएच-डी० में प्रवेश हेतु औपबन्धिक रूप से अर्ह पाये गये अभ्यर्थियों की सूची इस पत्र के साथ संलग्न है।

सूची में सम्मिलित अभ्यर्थियों से अपेक्षा की जाती है कि वह दिनांक 20.05.2023 तक विश्वविद्यालय के प्रशासनिक भवन स्थित शोध विभाग में प्रातः 11.00 बजे से 12.00 बजे के मध्य अपने समस्त अभिलेखों यथा-आवेदन 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 ड्राफ्ट/ऑनलाइन पैमेंट रिसीट जमा करें। उक्त 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. पीएच-डी० 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.
04. 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.
05. 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.

कुलसचिव

### प्रतिलिपि :-

01. वैयक्तिक सहायक कुलपति को मा० कुलपति जी के संज्ञानार्थ प्रेषित।
02. विभागाध्यक्ष/संकायाध्यक्ष, चौ० चरण सिंह विश्वविद्यालय, मेरठ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
03. प्रभारी विश्वविद्यालय वेबसाइट।
04. विश्वविद्यालय प्रेस प्रवक्ता।
05. विश्वविद्यालय अधिकृत एंजेली को आवश्यक कार्यवाही हेतु।

कुलसचिव

(18)

## EMEMPTED-AGRONOMY

Sl.No.	Form ID	Roll No.	Name	Father Name	Cate.	Exempte d Cat.	Marks Obtained in Interview
1	10364	2204046	Prashant Agrawal	Vijay Kumar Gupta	GEN	NET	25
2	11432	2204052	Shiv Bahadur	Dargahi	OBC	NET	25
3	11264	2204040	Bhuvesh	Kalitar Singh	OBC	NET	24
4	10985	2204044	Kuldeep Yadav	Omendra Singh	OBC	NET	24
5	11177	2204051	Sanjay Lilhare	Kuman Lilhare	GEN	NET	24
6	18054	2204054	Dharmendra Kuma	Lalta Prasad	OBC	NET	24
7	10828	2204053	Surendra Pal Maur	Harish Chandra Maurya	OBC	NET	24
8	13276	2204048	Rahul Kumar	Udhayveer Singh	OBC	NET	23
9	13362	2204045	Mohit Kumar	Sonu	OBC	NET	23
10	14362	2204039	Ajeet Singh	Ram Sevak Arya	OBC	NET	23
11	10474	2204049	Raj Kumar	Thakur Das	OBC	NET	23
12	11493	2204041	Deepak Gangwar	Dev Dutt	OBC	NET	23
13	13835	2204043	Harvansh Kumar	Rameshwar Dayal	OBC	NET	22
14	13153	2204050	Ramesh Babu	Lala Ram	OBC	NET	22
15	11491	2204042	Deepanshu	Bir Pal Singh	SC	NET	20



## 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<sup>-1</sup> (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<sup>-1</sup>. 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 rice-growing 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 /m<sup>2</sup>) and biomass (37 g/m<sup>2</sup>), resulted in better rice growth (plant height and tillers/m<sup>2</sup>), 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 m<sup>2</sup>
- 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 fb Byspyribac Sodium	1000g fb 25g	Pre-emergence & Post emergence (25-30 DAS)
T6	Pendimethaline fb (Fenoxaprop+ethoxysulfuron Tank Mix)	1000g fb 167g+18g	Pre-emergence & Post DAS)
T8	Pendimethaline 10.1% WP ) Tank Mix]	1000g fb 4g	Pre-emergence & Post DAS)

### Detail of Herbicides-

Name of Herbicide	Chemical group	Mode of Action	Trade Name	Active ingredient	Target weed
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	Triazolopyrimidine	Inhibition of acetolactate synthase (ALS)	Granite	21.7%SC	Grasses,sedge,broad leaf weeds
Cyhalofop	Phenoxy propionates	Acetyl CoA carboxylase (ACCase) inhibitor	Clincher	10%EC	Grassy weeds
(Metsulfuron Methyl 10.1%+Chlorimuron Ethyl 10.1% WP)	Sulfonylureas	Inhibition of acetolactate synthase (ALS)	Almix	20%WP	Sedge, broadleaf weeds

### References

- Singh, K., Singh, S. and Pannu, R.K., 2019. Efficacy of pendimethalin and cyhalofop- butyl+ penoxsulam against major grass weeds of direct-seeded rice. *Indian Journal of Weed Science*, 51(3), pp.227-231.
- Chauhan, B.S. and Abugho, S.B., 2012. Effect of growth stage on the efficacy of postemergence herbicides on four weed species of direct-seeded rice. *The Scientific World Journal*, 2012.
- Saravanane, P., 2020. Effect of different weed management options on weed flora, rice grain yield and economics in dry direct-seeded rice. *Indian Journal of Weed Science*, 52(2), pp.102-106.



Godara, S.P., Yadav, A. & Yadav, D.B. (2012) Evaluation of herbicide as alone or in sequential application against weed in directed seeded rice. In: *Extended summaries Vol. 2: 3rd International Agronomy Congress*, Nov. 26-30, 2012, New Delhi, India. pp. 336-337

Pathak, H., Sankhyan, S., Dubey, D.S., Bhatia, A. and Jain, N., 2013. Dry direct-seeding of rice for mitigating greenhouse gas emission: field experimentation and simulation. *Paddy and Water Environment*, 11(1), pp.593-601.

Pathak, H., Tewari, A.N., Sankhyan, S., Dubey, D.S., Mina, U., Singh, V.K., Jain, N. and Bhatia, A., 2011. Direct-seeded rice: Potential, performance and problems-A review. *Current Advances in Agricultural Sciences*, 3(2), pp.77-88.

Kaur, S. and Singh, S., 2015. Bio-efficacy of different herbicides for weed control in direct-seeded rice. *Indian Journal of Weed Science*, 47(2), pp.106-109.

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

Total Exp = 6 year  
Exp of SRC = 10 Month

Name of College... SRC, Muzaffarnagar Department... Agriculture Designation... Assistant Prof.

1- Name Dr. Jitendra Singh 2- Date of Birth 01/06/1988 3- Date of joining 27/09/22  
4- Previous Experience (in years): Teaching More than 7.6 years Industry (Research) 2 years  
5- Specialization Agri. (Soil Science) 6- Aadhar No. 445565767290 PAN No. FTFPS0917E  
8- Address Vill. Nagla Mahaur, Post-Rithauri, Teh. Kheragarh, Dist. Agri.  
Mob No. 9634225528 Whatsapp No. 96342255 E-Mail jitu1040@gmail.com

9- Teaching performance:

Time table Attached (Evidence) (Page No. 3-6)

Papers Taught in session Odd/Even sem	No. of Periods						Total Stdnts Appd in Exam	No. of Students			Passed With B/CO Paper	Pass %	
	Allotted Per week			Taken in Odd/Even Sem.				Clear Passed				Clear	B/ COP
								Percentage					
	Note:- Exam Result : Odd Sem (this year), Even Sem (last year), Annual (latest) be given	L	T	P	L	T		P	≥ 60	≥50/ <60			
Result							Not Declared		100%	100%	Result Not Declared		
<u>Odd Sem</u>													
1 <sup>st</sup> Sem Fund. of Soil Science	04	-	04	04	-	04	155						
5 <sup>th</sup> Sem Manures, Fert. & SFM	04	-	04	04	-	04	109						100%
7 <sup>th</sup> Sem Mgt. of Prob. Soil	02	-	04	02	-	04	42						100%
3 <sup>rd</sup> Sem Ag. Microbiology	02	-	-	02	-	-	122						
<u>Even Sem</u>													
Teaching in PG and Other Departments													
2 <sup>nd</sup> Sem Biogeochemistry	08	-	04	08	-	04	155						
4 <sup>th</sup> Sem Problematic Soil	04	-	04	04	-	04	122						
6 <sup>th</sup> Sem ELP	06	-	-	06	-	-	109						
8 <sup>th</sup> Sem RAWE	-	-	10	-	-	10	42						100%
Total Nus.	30		30	30		30							

10-Regularity and Punctuality: Leave availed



Late Arrivals



Absence



11-Details of Course teaching plan, synopsis of lecturers and reading lists supplied to students (Attach the Detail) -

12-Details of participation in the following: Description Attached (Page No. 122)

University/ College work assignments

(i) Ans. Script Evaluation

(ii) Question Paper setting Evidence Attached (Page No. 7, 8)

(iii) Assessment of Home assignments in session

(iv) Conduct of Exams, Invigilator/AS/SS duties

(v) Evaluation of Dissertation/Projects Evidence Attached (Page No. 9)

	Odd Sem		Even Sem/Annual		Even Sem	
	Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
(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) Laboratory experiments

(iv) Evaluation methods

(v) Preparation of resource material including books, reading materials, laboratory manuals etc.

(vi) Remedial Teaching/Student Counseling (academic)

(vii) Any other

Description Attached (Page No. 122)

ICT Tools Used

Book chapter Publi  
classes for  
slow learners

Page No. 10



14- Use of ICT (Information & Communication Technology): Use of Projector/Power Point PPT/YouTube

15-Improvement of Professional Competence: indicate no. in below table respectively Evidences attached (Page No- 11-14)

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
	<u>ADP (18 Days)</u>	<u>International Conference</u>	<u>International</u>						
	<u>01</u>	<u>01</u>	<u>02</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)

At the beginning

☐

During the year

☐

Completed during the year

☐

Evidences Attached (Page No- 15-23) (ii) No. of research papers (enclose list) Published

63

Accepted

-

Communicated

62

(iii) Research Projects: (a) Title

(b) Duration

Book chapter - 02

(c) Funding Agency

(d) Major/Minor

Evidences Attached

(iv) Details of Conferences ( ), Seminars (01), Symposia ( ) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies ( ), Editorship of Journals ( ) etc (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc ( )

(b) National Literacy Mission/ RUSA ( )

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution

(ii) Co-curricular activities

(iii) Enrichment of campus life (hostels, sports, games, cultural activities)

(iv) Students welfare and Discipline

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

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

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

Description Attached

Page No 122

I certify that all the above facts and related statements made by me are true.

Singh

(Full Signature of the Teacher)

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
1	Teaching Performance	
2	Regularity and Punctuality	Good
3	Details of Course teaching plan, synopses of lectures and reading lists supplied to students	Regular & Punctual. PDF notes & PPT supply to students.
4	Details of participation	Satisfactory
5	Details of Innovations/ Contribution in Teaching	V. effective
6	Use of ICT	Good
7	Improvement of Professional Competence	excellent
8	Research Contributions in session	V. good.
9	Extension Work/ Community Service	Good.
10	Professional Organisations	Good
11	Assessment	Satisfactory
12	General Data	Satisfactory

General Remarks of HoD  
 Dr. Jitendra v. helpful in departmental work. Teaching is very effective.  
 S/B/23  
 Signature

General Remarks of Director  
 Regular & Hardworking  
 Tactful for completing work  
 having good subject knowledge  
 good relations with other staff  
 Signature

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)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
2	Decency of Dress		8
3	Facial Expressions		7
4	Quality of Voice		8
5	Confidence Level		9
6	Use of White Board/ Black Board		9
7	Use of ICT/ Projector		7
8	Pre-Class preparation		8
9	Skill of Putting Examples		8
10	Generating Queries		8
11	Class Discipline		8
12	Punctuality		8
13	Generating Interest in Subject		9
14	Encouraging Participation		8
15	Guidance and Advice		8
16	Inside Class Motivation		9
17	Outside Class Motivation		
	% Score	%	<u>139</u> % 81%

## 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-convenor 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)

Page 3

<div style="display: flex; justify-content: space-between;"> <div> <b>INDIVIDUAL TIME TABLE</b>  <b>Dr. Jitendra Singh</b> </div> <div> <i>odd sem .</i>    <i>Session - 22-23</i> </div> </div>									
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 (Lab.) 1 <sup>st</sup> sem.	
	B								
Tuesday	A				Problematic soil 7 <sup>th</sup> sem.			Problematic soil (Lab.) 7 <sup>th</sup> sem.	
	B		Soil Science 1 <sup>st</sup> sem.						
Wednesday	A	Soil fertility 5 <sup>th</sup> sem.			Soil Science 1 <sup>st</sup> sem.			Soil fertility (Lab) 5 <sup>th</sup> sem.	
	B			Soil fertility 5 <sup>th</sup> sem.					
Thursday	A								
	B	Microbiology 3 <sup>rd</sup> sem.		Soil Science 1 <sup>st</sup> sem.				Soil fertility (Lab) 5 <sup>th</sup> sem.	
Friday	A	Microbiology 3 <sup>rd</sup> sem.		Soil fertility 5 <sup>th</sup> sem.					
	B				PCP 3 <sup>rd</sup> sem.				
Saturday	A								
	B			Soil fertility 5 <sup>th</sup> sem.				Soil Science (Lab.) 1 <sup>st</sup> sem.	

Prepared by  
Dr. Vikrant Kumar

Checked by HOD  
Dr. Nayeem Rajput

Approved by Dean  
Agriculture





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

(9)

Page 4

TIME TABLE											Even Sem.	
(B.Sc Agriculture 2 <sup>nd</sup> Semester: 2022-2023)												
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	II	A	Crop Physiology (MM)	Entomology I (SS)	Pathology (A.N.)	Economics (AJ)	Bio-Chemistry (JS)	Lunch	Food Proc. (Lab.) (N.R)			
		B	Entomology I (SS)	Crop Physiology (MM)	Plant Bio-che (J.S.)	Pathology (A.N.)	Economics (AJ)		Extension (Lab.) (SKS)			
Tuesday	II	A	Crop Physiology (MM)	Food Proc. (V.K)	Pathology (Lab.) (A.N.)		Veg. spices (A.A.)	Lunch	Organic Farming (Lab.) (RK)			
		B	Food Proc. (V.K)	Crop Physiology (MM)	Economics (Lab.) (AJ)		Organic Farming (RK)		Entomology I (Lab.) (SS)			
Wednesday	II	A	Food Proc. (V.K)	Extension (SKS)	Economics (Lab.) (AJ)		Plant Bio-che (J.S.)	Lunch	Veg. spices (Lab.) (AA)			
		B	Plant Patho. (A.N.)	Food Proc. (V.K)	Extension (SKS)	Pathology (Lab.) (A.N.)			Crop Physiology (Lab.) (MM)			
Thursday	II	A	Entomology I (SS)	Plant Bio-che (J.S.)	Extension (Lab.) (SKS)		Organic Farming (RK)	Lunch	Plant Patho. (A.N.)	Extension (SKS)		
		B	Veg spices (AA)	Entomology I (SS)	Plant Bio-che (J.S.)	Plant Bio-che (J.S.)	Plant Patho. (A.N.)		Organic Farming (Lab.) (RK)			
Friday	II	A	Pathology (A.N.)	Veg spices (AA)	Plant Bio-Chem. (Lab.) (JS)		Economics (AJ)	Lunch	Entomology I (Lab.) (SS)			
		B	Veg. spices (A.A.)	Pathology (A.N.)	Extension (SKS)	Veg spices (Lab.) (AA)			Plant Bio-che (J.S.)	Veg. spices (A.A.)		
Saturday	II	A	Pathology (A.N.)	Ethics (SKS)	Plant Bio-che (J.S.)	Economics (A.J.)	Pathology (A.N.)	Lunch	Crop Physiology (Lab.) (MM)			
		B	Ethics (SKS)	Pathology (A.N.)	Veg spices (AA)	Bio-Chemistry (Lab.) (JS)			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

(19)

Page 5

# TIME TABLE

(B.Sc Agriculture IV<sup>th</sup> Semester: 2022-2023)

Even Sem

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.)	Lunch	Metrology (Lab.) (R.K.)	
		B	Crop Pro. (R.K.)	Renew. Energy (V.K.)	Crop Pro. (Lab.) (R.K.)		Plant Biotech. (S.S.)		Ornamental Crops (Lab.) (A.A.)	
Tuesday	IV	A	Poultry Pro. (N.R.)	Plant Biotech. (S.S.)	Crop Pro. (Lab.) (R.K.)		Prob. Soil (J.S.)		Renew. Energy Lab. (V.K.)	
		B	Plant Biotech. (S.S.)	Poultry Pro. (N.R.)	Business (Lab.) (SKS)		Plant Biotech. (S.S.)		Ornamental (A.A.)	Prob. Soil (J.S.)
Wednesday	IV	A	Poultry Pro. (N.R.)	Seed Tech. (Lab.) (M.M.)		Ornamental Crops (Lab.) (A.A.)			Business (Lab.) (SKS)	
		B	Ornamental (A.A.)	Poultry Pro. (N.R.)	Ornamental (A.A.)	Practical Crop Pro. (Lab.) (R.K.)			Poultry Pro. (Lab.) (N.R.)	
Thursday	IV	A	Practical Crop Pro. (Lab.) (R.K.)		Ornamental (A.A.)	Poultry Pro. (Lab.) (N.R.)			Prob. Soil (Lab.) (J.S.)	
		B	Seed Tech (Lab.) (M.M.)		Metrology (R.K.)	Agri. Info. (Lab.) (V.K.)			Renew. Energy Lab. (V.K.)	
Friday	IV	A	Practical Crop Pro. (Lab.) (R.K.)		Seed Tech (M.M.)	Plant Biotech. (S.S.)	Metrology (R.K.)		Agri. Info. (Lab.) (V.K.)	
		B	Plant Biotech. (Lab.) (S.S.)		Ornamental (A.A.)	Seed Tech (M.M.)	Prob. Soil (J.S.)		Metrology (Lab.) (R.K.)	
Saturday	IV	A	Plant Biotech. (Lab.) (S.S.)		Seed Tech (M.M.)	Agri. Info. (V.K.)	Business (SKS)		Prob. Soil (J.S.)	Ornamental (A.A.)
		B	Prob. Soil (Lab.) (J.S.)		Business (SKS)	Seed Tech (M.M.)	Agri. Info. (V.K.)		Practical Crop Pro. (Lab.) (R.K.)	

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)

Page 6

# TIME TABLE

(B.Sc Agriculture VI<sup>th</sup> Semester: 2022-2023)

Even Sem

TIME TABLE										
(B.Sc Agriculture VI <sup>th</sup> Semester: 2022-2023)										
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	VI	A	Ag. Finance (Lab.) (A.J.)		Post Har. (V.K.)	Extension (Lab.) (S.K.S.)		Lunch	Seed Tech. (Lab.) (M.M.)	
		B	Extension (Lab.) (S.K.S.)		Seed Tech. (M.M.)	Dairy (Lab.) (N.R.)			Post Har. (Lab.) (V.K.)	
Tuesday	VI	A	Ag. Finance (A.J.)	Extension (S.K.S.)	ELP (J.S.)	Seed Tech. (M.M.)	Plant Patho. (A.N.)		Dairy (Lab.) (N.R.)	
		B	Plant Patho. (A.N.)	Ag. Finance (A.J.)	Seed Tech. (M.M.)		Extension (S.K.S.)		Seed Tech. (Lab.) (M.M.)	
Wednesday	VI	A	Farming (A.J.)	Plant Patho. (A.N.)	ELP (S.S.)	Seed Tech. (M.M.)	Extension (S.K.S.)		Post Har. (Lab.) (V.K.)	
		B	ELP (J.S.)	Farming (A.J.)	Post Har. (V.K.)	Extension (S.K.S.)	ELP (A.J.)		ELP (S.S.)	ELP (S.S.)
Thursday	VI	A	Plant Patho. (Lab.) (A.N.)		Seed Tech. (M.M.)	ELP (A.A.)	ELP (S.S.)		Ag. Finance (A.J.)	
		B	Ag. Finance (Lab.) (A.J.)		ELP (J.S.)	Seed Tech. (M.M.)	ELP (A.J.)			Ag. Finance (A.J.)
Friday	VI	A	Post Har. (V.K.)	Farming (A.J.)	Dairy (N.R.)	Plant Patho. (A.N.)	ELP (S.S.)	Lunch	ELP (J.S.)	Plant Patho. (A.N.)
		B	ELP (J.S.)	Post Har. (V.K.)	ELP (S.S.)	Dairy (N.R.)	Post Har. (V.K.)		ELP (A.A.)	ELP (A.J.)
Saturday	VI	A	Post Har. (V.K.)	Dairy (Lab.) (N.R.)	Farming (A.J.)	ELP (R.K.)	ELP (A.A.)		ELP (A.A.)	Plant Patho. (A.N.)
		B	Farming (A.J.)	ELP (R.K.)	Dairy (Lab.) (N.R.)	Plant Patho. (Lab.) (A.N.)			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

निर्देश:

1. लिफाफे के मध्य में टांका लगाकर गाठ सील करें, ताकि प्रश्न-पत्र निकाला न जा सकें।
2. 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 580. 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



**TOP SECRET**

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

Date: 21/03/2023

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

निर्देश:

1. लिफाफे के मध्य में टांका लगाकर गाठ सील करें, ताकि प्रश्न-पत्र निकाला न जा सकें।
2. क्रमांक 3 पर निर्दिष्ट संख्या में अलग-अलग प्रश्न-पत्र निर्मित किये जायें। 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)

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 615. 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



# BHAGWANT UNIVERSITY

Established by Govt. of Rajasthan, and Recognized by UGC  
Approved by BCI, PCI, NCTE, Member of ACU, AIU, AIMA, IAP, FICCI, YHAI, IETE, ISCA  
Sikar Road, Ajmer - 305 023 (Rajasthan), INDIA



Ref. No. BU/RES/Ph.D.Eval/Corres/ 192

Dated: 3-3-23

To, DR. Jitendra Singh  
Asst. Prof. Dept. of Agriculture  
Ram College Up.

Sub: Evaluation of Ph.D. Thesis  
Respected Sir/Madam,

Mob:- 9634225528

The Hon'ble Vice-Chancellor of Bhagwant University is pleased to assign you as examiner to assess and evaluate the Ph.D. Thesis entitled

Studies on Soil Properties, nutrient modules.

You are requested to kindly evaluate the Ph.D. thesis and send the evaluation report (scanned copy through email and hard copy through post) within four week of receipt of thesis.

A. In order to be awarded the degree of Doctor of Philosophy, the candidate must be adjudged by the examiners to have demonstrated the ability to:

- Formulate research questions that address social issues or advance science;
- Carry out original scientific research;
- Publish in UGC Approved reputed journals;
- Integrate his or her research into the scientific discipline in question and put it into a broader scientific context;
- Place both the research objectives and the research results in a social/scientific context;
- Postulate concisely formulated propositions in scientific and social areas, in such a way that they are available for discourse.

B. The examiners shall examine the thesis specifically with a view to judge whether the thesis is a of research work characterized by:

- Addition of fresh evidence, or
- A fresh approach towards interpretation of facts or theories, or
- A distinct advancement in the subject.

An early response in this regard is highly expected & appreciated.

Thanking you

Dean (Research)

Email-ph.dsection@gmail.com

Phone-+916376916607, 0145-2789302

Encls:

- Ph.D. theses Evaluation form
- Ph.D. thesis
- Format of thesis evaluation form (Sample)
- Remuneration Bill

Tel.: +91-145-2789301, 2789302 | Mobile : +91-9928144441, 9928144445, 9928144447  
Email : unibhagwant@rediffmail.com | Website : www.bhagwantuniversity.ac.in



**Shri Ram College, Muzaffarnagar**  
**Department of Agriculture**

**Office Order**

All the faculties have been assigned as the class coordinators/ Mentors of B.Sc. Agriculture, college of Shri Ram for the academic session 2022-23. Kindly note it and take necessary action as below

Year	Section	Name of Faculty	Contact No.	Email. Id	Remark
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3 <sup>rd</sup>	A	Mr. Raj Kumar	9410037649	<a href="mailto:rajcumargangwar147@gamil.com">rajcumargangwar147@gamil.com</a>	114 <i>Raj Kumar</i>
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2. Appoint Class representative (CR) of your class/section.

*[Signature]*  
15/12/22  
Dr. Ashok Kumar  
Dept. of Agriculture

**Workshops, Conferences and Seminars**

- 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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during 5<sup>th</sup> Global Meet on Science and Technology for Minimizing Innovation Cost & Time :  
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### on “Waste Water Management in India: Special Reference to Pilot Project of TSS Technology” at Shri Ram Group of Colleges, Muzaffarnagar, India

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Certified that Dr/ Mr/ Ms Titendra K. Singh has  
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,  
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We wish him/her the best of success in his/her future endeavors.

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Managing Director  
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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 *Xanthomonas axonopodis* sp. *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





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

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<sup>b</sup> Department of Agriculture, Shri Ram Group of College, Muzaffarnagar, India.

## Authors' contributions

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

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## Original Research Article

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## 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.

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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>

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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, Issue 3, pp.-1995-1997.

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**Academic Editor / Reviewer:** Dr Sarita Bhutada

#### 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 assays 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)

Citrus fruits are very important in terms of international trade, they are valued both as fresh fruits and 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 (Luthra and 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 different 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 pathogenicity, morphological and biochemical tests.

### MATERIALS AND METHODS

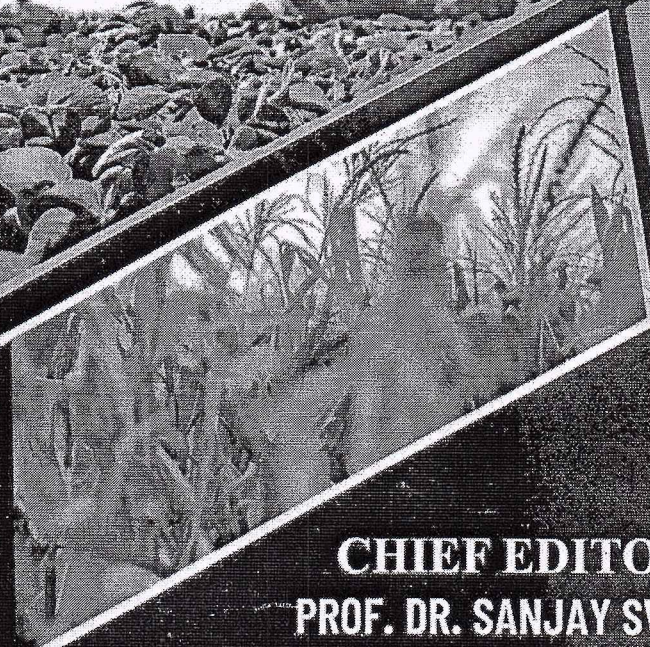
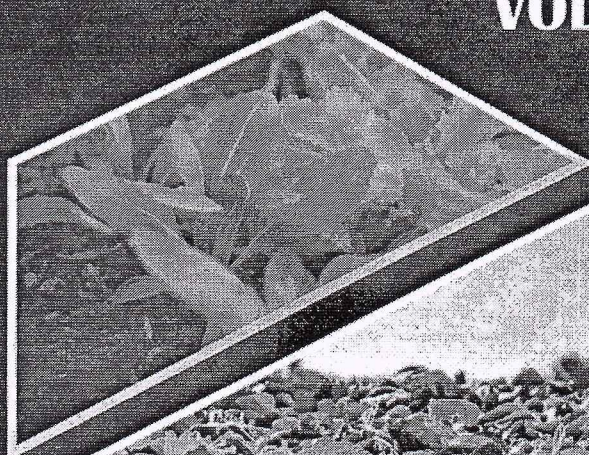
The present study was carried out in the laboratory. The laboratory experiments were conducted at the Department of Plant Pathology, College of Agriculture,

\*Corresponding author : archanagbpuat.patho@gmail.com  
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## Contents

S. No.	Chapters	Page No.
1.	Vermicomposting: An Ecofriendly Approach for Sustainable Agriculture Rajan K. Ojha, Harshita Bisht	1-7
2.	Importance of Indigenous Technical Knowledge Systems in Organic Farming G. Chandrashekhar	8-21
3.	Organic Production Technology of Cucumber at Cold Desert Region of Leh-Ladakh Anshu Verma, Shardulya Shukla, Kaushal Kumar, Tsewang Norbu, Dorjey Angchuk, Om Prakash Chaurasia	22-35
4.	Ladakh: Organic Cultivation Practices of Tomato ( <i>Lycopersicon Esculentum</i> ) Shardulya Shukla, Nitish Kumar, Anshu Verma, Manoj Kumar, Mohan Singh Thakur, Raj kumar, Shweta Saxena, Monisha Rawat	36-48
5.	Impact of Organic Farming on Soil Health Rahul Kumar, Sweta Singh, R S Meena	49-71
6.	Organic Farming for Sustainable Agriculture in India Jitendra Singh, Archana Negi, Rohit, Rajiv Kumar	72-83
7.	Bio-dynamics in Organic Agriculture Shikhar Verma, Mausmi Rastogi, Vikash Singh	84-96

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## Chapter - 6

### Organic Farming for Sustainable Agriculture in India

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Associate Professor, Faculty of Agriculture, Motherhood University, Roorkee, Haridwar  
Uttarakhand, India

#### 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

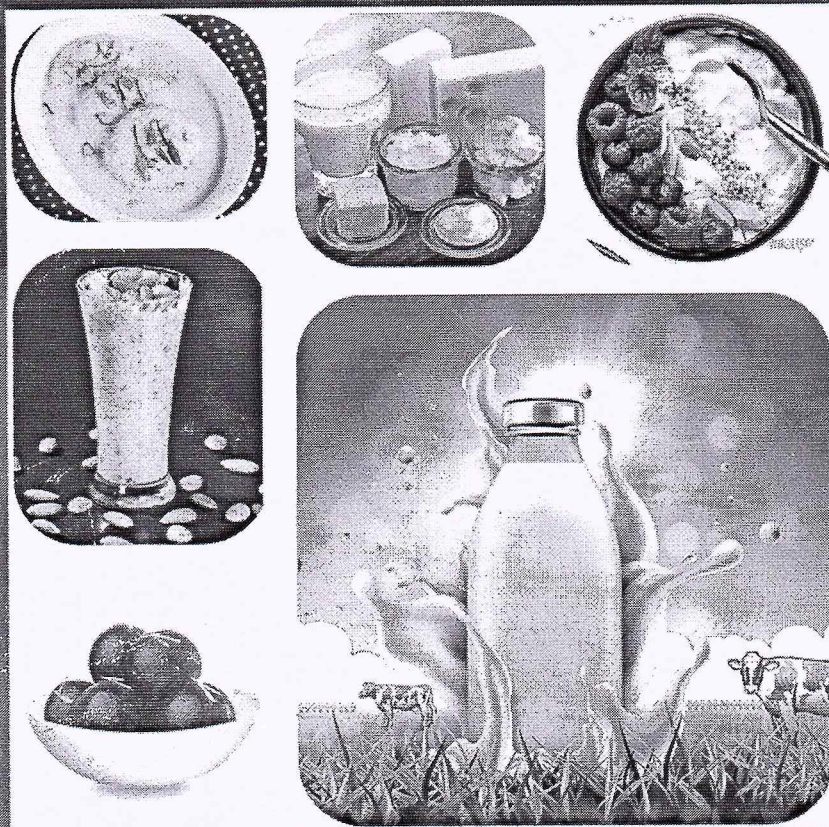


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Date: 18/05/2023

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1.	Academics Committee	Dr. Vinit Kumar Sharma	Dr. Jitendra Kumar,	Dr. Prerna Mittal, Mr. Nishant Rath, 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 Rath, Dr. Manoj Dhiman, Ms. Anju Tyagi Dr. Ashfaq Ali, 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 Rath	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. Binu 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 Azeem 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.	Media Committee	Dr. Ravi Gautam	Ms. Shivani 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
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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 & Entrepreneurship 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/ Incubation Cell			
31.	Best Practice Monitoring Team/ Green Campus Audit Committee and waste management committee	Mr. Vivek Tyagi	Mr. Sandeep Rath	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 Rath	Dr. Archana Negi	Dr. Abdul Azeer 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



	Disadvantage Group Assistance 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.







14- Use of ICT (Information & Communication Technology): Yes with Power Point presentation, whatsapp group, PDF.

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
	✓	✓	✓			✓			

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)

At the beginning

☒

During the year

☒

Completed during the year

☐

(ii) No. of research papers (enclose list) Published

☒

Accepted

☐

Communicated

☐

(iii) Research Projects: (a) Title Roof Water Harvesting

(b) Duration

6 months

(c) Funding Agency

S.R.G.C. Trust

(d) Major/Minor

minor

(iv) Details of Conferences ( ), Seminars ( ), Symposia ( ) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies ( ), Editorship of Journals ( ) etc (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (yes (2))

(b) National Literacy Mission/ RUSA ( )

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)

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

(i) College/University/Institution Research, Teaching, NAAC, ICAR

(ii) Co-curricular activities Seminar, Workshop, Poster Competition, ED Programme

(iii) Enrichment of campus life (hostels, sports, games, cultural activities) Rangoli Competition, Colours Programme

(iv) Students welfare and Discipline yes

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

20- Assessment:- Steps taken for the evaluation of the course programme taught Unit test, Assignment, PPT,

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

Dr. Anyali Jakharg

(Full Signature of the Teacher)

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
1	Teaching Performance	<p>Very good performance in class.  Regular &amp; punctual time in class.  Teaching knowledge with PAF and PPT transfer.  Dr. Anjali participated in all activities.  Satisfactory.  PPT, PDF, Group.  Highly Satisfactory.  07 Research paper published.  Good.  Good.  V. Good.  Good.</p>
2	Regularity and Punctuality	
3	Details of Course teaching plan, synopsis of lectures and reading lists supplied to students	
4	Details of participation	
5	Details of Innovations/ Contribution in Teaching	
6	Use of ICT	
7	Improvement of Professional Competence	
8	Research Contributions in session	
9	Extension Work/ Community Service	
10	Professional Organisations	
11	Assessment	
12	General Data	

General Remarks of HoD Dr. Anjali very helpful body in all departmental work and satisfactory work of teaching.

Dr. Anjali  
5/2/23  
Signature

General Remarks of Director

Knowledgeable - hardworking, punctual & sincere.  
Having a good quality for dealing with students.

Signature

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)

S.No.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
2	Decency of Dress		9
3	Facial Expressions		9
4	Quality of Voice		9
5	Confidence Level		8
6	Use of White Board/ Black Board		9
7	Use of ICT/ Projector		8
8	Pre-Class preparation		9
9	Skill of Putting Examples		9
10	Generating Queries		9
11	Class Discipline		8
12	Punctuality		9
13	Generating Interest in Subject		9
14	Encouraging Participation		8
15	Guidance and Advice		7
16	Inside Class Motivation		7
17	Outside Class Motivation		8
	% Score	%	$\frac{143}{170} \times 100$ $= 84\%$

## Work Progress and Achievements

Name: **Dr. Anjali Jakhar**

Designation: **Assistant Professor**

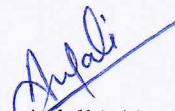
Department of: **Agriculture**

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 dactylorhiza hatagirea (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

**Ref: CCFS-2021-22**

**Acceptance Letter (CCFS- 2021-22)**

**Greetings & Welcome in CCFS- 2022**

To,

Contributors/ Participants

Dear Dr./Madam,

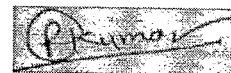
We are pleased to inform you that your abstract entitled **"CLIMATE CHANGE AND FOOD SECURITY IN INDIA"** by **Dr. Anjali Jakhar** has been accepted for publication as (Oral/Poster Presentation) in conference abstract/ proceedings book in upcoming 1<sup>st</sup> International Conference Organize by **Mangalayatan 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](mailto: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)**

Organizing Secretary

Email: [ccfsconference2022@gmail.com](mailto:ccfsconference2022@gmail.com)

Cell No. 9554708626, 9149332851

Convener: **Dr. Iti Gontia-Mishra**

9302587754





## 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>

<sup>1,4,5</sup>Assistant Professor College of Agriculture, <sup>2</sup>HOD Agriculture  
<sup>3</sup>Dean College of Agriculture Shri Ram College, Muzaffarnagar, 251001

\*Corresponding Author: [vvv6096@gmail.com](mailto:vvv6096@gmail.com)

### 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 m<sup>3</sup> was manufactured to store water. The study indicates that from 894.14 m<sup>2</sup> catchment area 35.78 m<sup>3</sup> water is generated which required almost 36 m<sup>3</sup> 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 m<sup>3</sup> water stored on the roof of 894.14 m<sup>2</sup> 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](mailto: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. Biopastacidase 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-Pesticide) 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.

\*Author for correspondence:



## **Notice**

All the students are informed you that Agriculture department conduct a 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](mailto: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 organoleptic 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).

\*Author for correspondence:



Attendance list of Students Certificate course on Advance technical training in floriculture on 08/05/2023 to 21/05/2023.

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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](mailto: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.

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## 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

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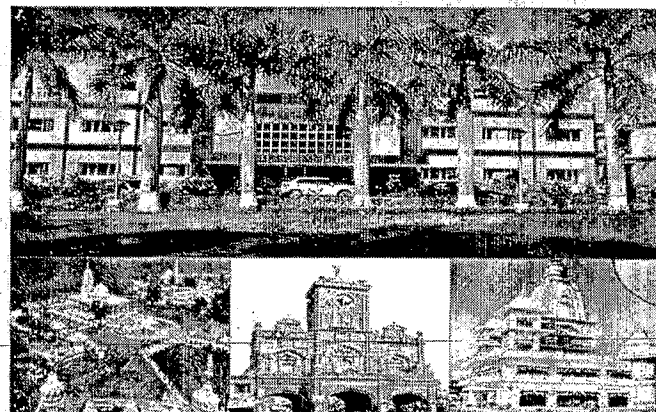
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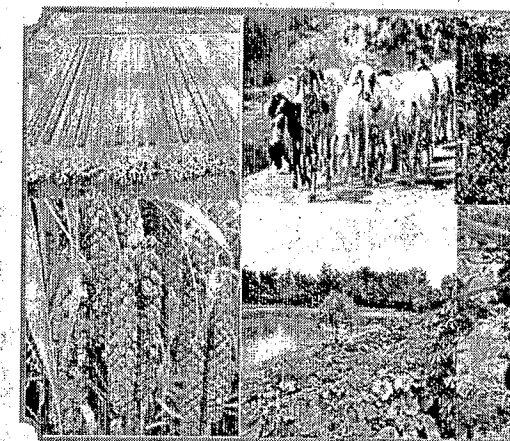


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213	RECENT DEVELOPMENT VEGETABLE OIL PROCESSING AND REFINING HARSHITA KUSHWAHA, SURESH CHANDRA AND RUCHI VERMA	
214	PRE-MILLING TREATMENTS (PARBOILING) IN PADDY AMIT KUMAR, SURESH CHANDRA, ALKA SINGH, SHASWAT TIWARI AND SHOBI CHOUHDARY	
215	PROCESSING TECHNOLOGY OF RICE AND ITS EFFECT ON FOOD QUALITY ALKA SINGH, SURESH CHANDRA, AMIT KUMAR, SHASWAT TIWARI AND SHOBI CHOUHDARY	
216	MULTI-GRAINS AND MILLETS USING TO DEVELOP CRISPS FOR HUMAN CONSUMPTION SHASWAT TIWARI, DEEPAK K.R. MISHRA, SHOBI CHOUHDARY, ALKA SINGH, AMIT KUMAR AND SURESH CHANDRA	2
217	STUDY OF PREPARATION AND STANDARDIZATION OF HOMEMADE PICKLE OF KARONDA (CARISSA CONGESTA L.) UPENDRA MAURYA, SATYA PRAKASH, ABHISHEK CHANDRA AND MOHIT KUMAR	21
218	INNOVATIVE METHOD OF VEGETATIVE PROPAGATION IN GLIAVA (PSIDIUM GUAJAVA L.) VARNIT AGARWAL, SATYA PRAKASH, SRISHTY KUMARI	26
219	VALUE ADDITION IN BANANA: A SCOPE FOR ENHANCEMENT OF INCOME IN INTEGRATED FARMING SYSTEMS A. NATH, PRAKASH GHASAL, P. KASHYAP, M. SAMIM, A. PRUSTY, D. DUTTA, S. MALIK, N. RAVISANKAR, R.P. MISHRA, P. PUNIA, S.P. SINGH AND A.S. PANWAR	27
220	SUSTAINABLE FOOD SECURITY INDEX: A DISTRICT-LEVEL STUDY OF UTTARAKHAND SHEFALI SRIVASTAVA AND SANJAI KUMAR SRIVASTAVA	271
221	EFFECT OF VEGETABLE OILS ON FILLED MILK FROZEN DESSERT MOHD NAYEEM ALI, ANJALI JAKHAR, SHIVAM RATHI	273
222	DEVELOP A BANANA KULFI BY PARTIAL ADDITION OF DIFFERENT LEVELS OF BANANA MOHD NAYEEM ALI, VIKRANT KUMAR, ANJALI JAKHAR AND SHIVAM RATHI	274
223	SCOPE OF HORTICULTURE BASED INTEGRATED FARMING SYSTEM FOR LIVELIHOOD SECURITY P.P. SINGH, A. NATH, NIRMAL AND PEYUSH PUNIA	274
224	INTEGRATED FARMING SYSTEM AN APPROACH TO INCREASING FARMERS INCOME RAJNEESH PAL, DIPAK KUMAR, VIVEK KUMAR	275
225	DR. S.P. SINGH, DR. M.P. SINGH, DR. R.P. MISHRA & DR. L.R. MEENA	276
226	YIELD TRENDS AND DOUBLING INDIAN MAJOR CROP PRODUCTION BY 2050 SUSHEEL KUMAR SARKAR, ANIL KUMAR AND SUKANTA DASH	276
227	CLIMATE SMART INTEGRATED FARMING SYSTEM MODEL FOR LIVELIHOOD SECURITY S.S. WALIA AND TAMANPREET KAUR	277
228	CLIMATE SMART INTEGRATED FARMING SYSTEM FOR DIFFERENT AGRO-ECOLOGIES A.K. PRUSTY, N. RAVISANKAR, M. SHAMIM, MA ANSARI, RACHUVEER SINGH, RAGHAVENDRA KJ, POONAM KASHYAP AND KOHIMA NOOPUR	278



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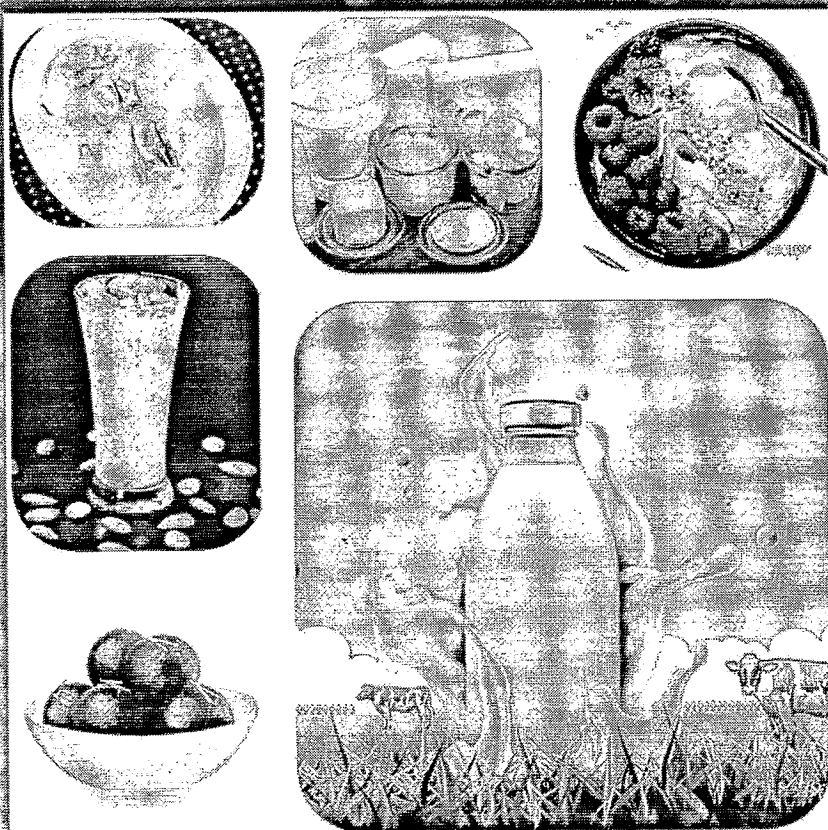
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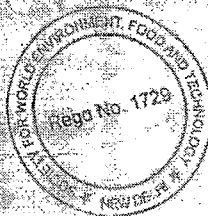
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	C++ BCA 3C	5	1	-	75	09	79	38	35	1	85	93.67	6.33
	CN BCA 5B	5	1	-	74	11	89	59	28	2	1	98.86	1.14
	Lab D.S	-	-	4		72							
	Lab C++	-	-	4		72							
<u>even</u>													
Teaching in PG and Other Departments													
	KM BCA 6B (BCA604)	5	1	-	65	10	81	40	40	-	1	98.76	1.24
	CG BCA 4D (BCA401)	5	1	-	64	11	73	27	45	-	1	98.63	1.37
	MC MCA 7 KCA-051	5	1	-	70	10	63	32	27	2	2	96.82	3.18
	Lab CG	-	-	4		50							
Total Nos.		30	6	12	422	63	194	465	245	208	05	10	

10-Regularity and Punctuality: Leave availed

14

Late Arrivals

NIL

Absence

NIL

11-Details of Course teaching plan, synopses of lectures and reading lists supplied to students (Attach the Detail) -

12-Details of participation in the following:

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

Odd Sem

Even Sem/Annual

Int./Coll.	Ext./Univ.	Int./Coll.	Ext./Univ.
248	-	280	-
23		04	
1400		1350	
15	10	10	07
-	-	-	-

13- Details of Innovations/Contribution in Teaching, during the year : (brief overview)

(i) Design of curriculum.....(ii) Teaching methods Lecture and presentation

(iii) Laboratory experiments.....(iv) Evaluation methods Unit test + Viva voce + Presentation

(v) Preparation of resource material including books, reading materials, laboratory manuals etc.

(vi) Remedial Teaching/Student Counseling (academic) Extra class for weak student in study

(vii) Any other



14- Use of ICT (Information & Communication Technology):

15-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil	Ph.D.	NPTEL Courses Regd.	Assignments	Exam certificates
		01					03		

16- Research Contributions in session :

(i) Number of students registered (M.Phil./Ph.D.)  
At the beginning ☐ During the year ☐

Completed during the year ☐

Accepted ☐ Communicated ☐

(ii) No. of research papers (enclose list) Published

(iii) Research Projects: (a) Title..... (b) Duration.....

(c) Funding Agency..... (d) Major/Minor.....

(iv) Details of Conferences (.....), Seminars (.....), Symposia (.....) organized (Attach the detail)

(v) Patents taken, if any, attach a brief description

(vi) Membership of Professional Bodies (.....), Editorship of Journals (.....) etc. (Attach the detail)

17- Extension Work/Community Service

(i) Please give a short account of your contribution to:

(a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc. (.....)

(b) National Literacy Mission/ RUSA (.....)

(ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf) *coordinator Rover Ranger Committee*

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

(i) College/University/Institution

(ii) Co-curricular activities

(iii) Enrichment of campus life (hostels, sports, games, cultural activities) - *member of sport committee*

(iv) Students welfare and Discipline - *member of Proctor board*

(v) Membership/Participation in Bodies/Committees on Education and National Development

19- Professional Organizations of Teachers

20- Assessment:- Steps taken for the evaluation of the course programme taught - *Assessment based on Unit test / Home assignment / Presentation*

21- General Data:- State brief assessment of your performance indicating (attach the detail)

(i) Achievements

(ii) Difficulties faced

(iii) suggestions for improvement

I certify that all the above facts and related statements made by me are true.

*Praveen Kumar*


(Full Signature of the Teacher)

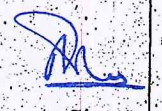
Note: Supporting briefs may be reported as attachment wherever required or submitted on separate note sheets.



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

	Factual Data	Remarks
1	Teaching Performance	Good
2	Regularity and Punctuality	Regular & Punctual
3	Details of Course teaching plan, synopsis of lectures and reading lists supplied to students	Timely preparation of lecture plans
4	Details of participation	class teacher & larger room
5	Details of Innovations/ Contribution in Teaching	Satisfactory
6	Use of ICT	Average
7	Improvement of Professional Competence	Satisfactory
8	Research Contributions in session	Average
9	Extension Work/ Community Service	Coordinating Ranges Room
10	Professional Organisations	
11	Assessment	
12	General Data	

General Remarks of HoD	Hard working & sincere teacher	 Signature
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General Remarks of Director	Sincere & punctual	 Signature
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Observations /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.	Parameters of Feedback	Feedback by Students (10)	Feedback by HoD (10)
1	Subject Knowledge		8
2	Decency of Dress		8
3	Facial Expressions		8
4	Quality of Voice		8
5	Confidence Level		9
6	Use of White Board/ Black Board		9
7	Use of ICT/ Projector		8
8	Pre-Class preparation		9
9	Skill of Putting Examples		8
10	Generating Queries		9
11	Class Discipline		8
12	Punctuality		9
13	Generating Interest in Subject		8
14	Encouraging Participation		8
15	Guidance and Advice		8
16	Inside Class Motivation		8
17	Outside Class Motivation		8
	% Score	%	82.94 %



Certificate No: ICT-7401/22

# 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 COLLEGS, MUZAFFARNAGAR, MUZAFFARNAGAR  
UTTAR PRADESH**

*Participated in the AICTE Recognized Faculty Development Programme*

**on**

**Developing Employable Skills**

*Conducted by*

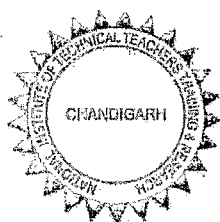
**Education and Educational Management Department**

**from**

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

**at**

**Shri Ram Group of Colleges , Muzaffarnagar**



*[Signature]*  
**Coordinator**

*[Signature]*  
**Director**





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*

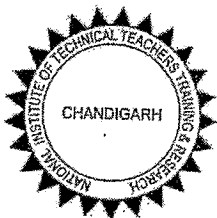
**Curriculum Development Centre Department**

**from**

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

**at**

**Shri Ram Group of Colleges Muzaffarnagar**



**Coordinator**

**Director**

# 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.....Praveen.....kumar.....faculty of.....Computer  
Application.....college/institute of.....Shri Ram College, Muzaffarnagar.....  
has attended a two days Workshop on "Artificial Intelligent Robotic Process Automation"  
conducted by AiRo Digital Labs, Gurgaon in collaboration with Shri Ram Group of Colleges,  
Muzaffarnagar (UP) on 13th & 14th May 2022.*

*We wish him/her for success future.*

A handwritten signature in black ink, appearing to read "Sayak Das".

(Sayak Das)  
Co-Founder, AiRo

A handwritten signature in black ink, appearing to read "Dr. Alok Gupta".

(Dr. Alok Gupta)  
Director, SRCE





Certificate No: ICT-10626/22

**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**

**Outcome Based Curriculum Design**

*Conducted by*

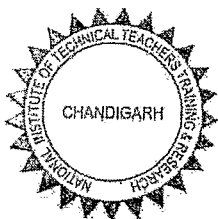
**Curriculum Development Centre Department**

**from**

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

**at**

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



  
**Coordinator**

  
**Director**



Name of College Shri Ram College Department CA Designation Asst. Prof.

1-Name Himanshu Hora 2-Date of Birth 06-04-79 3-Date of joining 25/01/2017

4- Previous Experience (in years): Teaching 14.5 + 6.5 = 21 Industry —

5-Specialization DBMS/CPPI 6-Aadhar No. 394157626133 7-PAN No. ABNPH7328 A

8-Address Teacher Colony, Deoband

Mob No. 9259359350 Whatsapp No. 9259359350 E-Mail. himanshu.hora@gmail.com

9-Teaching performance:

10-Regularity and Punctuality: Leave availed	06	Late Arrivals	Nil	Absence	Nil
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Page 1 of 1



1- Use of ICT (Information & Communication Technology): Yes, smart board, Zoom App & Projector

5-Improvement of Professional Competence: indicate no. in below table respectively

Refresher/ orientation courses attended	Participation in summer school	Workshops	Seminars	Symposia	M.Phil. (Yes)	Ph.D. (Yes)	NPTEL Courses Regd.	Assignments	Exam certificates
—	—	02	—	—	—	—	01	—	01

- 16- Research Contributions in session:
- (i) Number of students registered (M.Phil./Ph.D.)
- At the beginning ☐ During the year ☐ Completed during the year ☐
- (ii) No. of research papers (enclose list) Published ☐ Accepted ☐ Communicated ☒
- (iii) Research Projects: (a) Title..... (b) Duration.....
- (c) Funding Agency..... (d) Major/Minor.....
- (iv) Details of Conferences (Nos.), Seminars (Nos.), Symposia (Nos.) organized (Attach the detail)
- (v) Patents taken, if any, attach a brief description
- (vi) Membership of Professional Bodies (Nos.), Editorship of Journals (Nos.) etc. (Attach the detail)
- 17- Extension Work/Community Service
- (i) Please give a short account of your contribution to:
- (a) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc (Nos.)
- (b) National Literacy Mission/RUSA (Nos.)
- (ii) Positions held/Leadership role played in organizations linked with Extension work and National Service Scheme (NSS), or NCC or any other similar activity. (brief our leaf)
- 18- Participation in Corporate Life: Please give a short account of your contribution to: (Deoband Admission Office)
- (i) College/University/Institution Counselling for admissions in mzu, deoband & shaukat
- (ii) Co-curricular activities Outreach counselling in West Bengal for the college.
- (iii) Enrichment of campus life (hostels, sports, games, cultural activities)
- (iv) Students welfare and Discipline Co-convenor of student welfare committee.
- (v) Membership/Participation in Bodies/Committees on Education and National Development
- 19- Professional Organizations of Teachers
- 20- Assessment:- Steps taken for the evaluation of the course programme taught
- 21- General Data:- State brief assessment of your performance indicating (attach the detail)
- (i) Achievements (ii) difficulties faced (iii) suggestions for improvement

→ SRQC Excel Award

→ Excellence Award by International Education Conclave

I certify that all the above facts and related statements made by me are true.

(Full Signature of the Teacher)

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

No. of Enclosures : 09




**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		8
2	Decency of Dress		9
3	Facial Expressions		9
4	Quality of Voice		9
5	Confidence Level		9
6	Use of White Board/ Black Board		8
7	Use of ICT/ Projector		8
8	Pre-Class preparation		8
9	Skill of Putting Examples		9
10	Generating Queries		9
11	Class Discipline		8
12	Punctuality		8
13	Generating Interest in Subject		8
14	Encouraging Participation		9
15	Guidance and Advice		9
16	Inside Class Motivation		8
17	Outside Class Motivation		8
	% Score	%	84.70%



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

	Factual Data	Remarks
1	Teaching Performance	Good Teacher
2	Regularity and Punctuality	Punctual
3	Details of Course, teaching plan, synopsis of lectures and reading lists supplied to students	Prepared timely
4	Details of participation	Active Participation
5	Details of Innovations/ Contribution in Teaching	Satisfactory
6	Use of ICT	Satisfactory
7	Improvement of Professional Competence	Average
8	Research Contributions in session	Average
9	Extension Work/ Community Service	Good work in Admin's room
10	Professional Organisations	
11	Assessment	
12	General Data	

General Remarks of HoD	Overall performance is good.	 Signature
------------------------	------------------------------	--

General Remarks of Director	Soft spoken Sincere, Hardworking Regular	 Signature
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Observations /Order		Chairman/Secretary
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Certificate No: ICT-1375/22

**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*

**on**

**NEP 2020 Implementation in Higher Education Institutes**

*Conducted by*

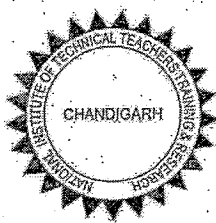
**Curriculum Development Centre Department**

**from**

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

**at**

**Shri Ram Group of Colleges Muzaffarnagar**



**Coordinator**

**Director**





Certificate No: ICT-5883/22

**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*

**on**

**Accreditation Criteria and Process**

*Conducted by*

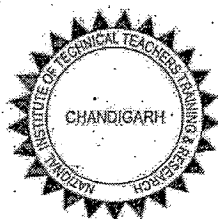
**Curriculum Development Centre Department**

**from**

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

**at**

**Shri Ram Group of Colleges, Muzaffarnagar Uttar Pradesh**



**Coordinator**

**Director**



Certificate No: ICT-10634/22

**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*

**on**

**Outcome Based Curriculum Design**

*Conducted by*

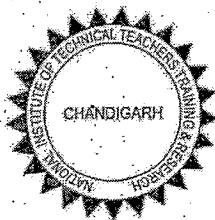
**Curriculum Development Centre Department**

**from**

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

**at**

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



**Coordinator**

**Director**



**AiRo Digital Labs**  
Gurgaon



in collaboration with



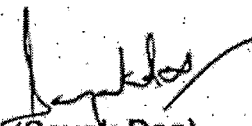
**Shri Ram Group of Colleges**  
Muzaffarnagar

**Workshop on**  
**Artificial Intelligence Robotic Process Automation**

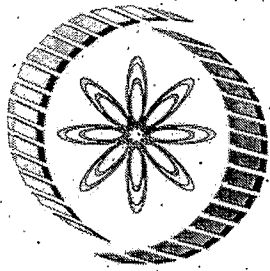
**Certificate of Participation**

*This is to certify that Mr/Ms... Dr. Himanshu Hora ..... faculty of Computer  
Application.... college/institute of..... Shri Ram College..... MZN.....  
has attended a two days Workshop on "Artificial Intelligent Robotic Process Automation"  
conducted by AiRo Digital Labs, Gurgaon in collaboration with Shri Ram Group of Colleges,  
Muzaffarnagar (UP) on 13th & 14th May 2022.*

*We wish him/her for success future.*

  
(Sayak Das)  
Co-Founder, AiRo

  
(Dr. 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)**

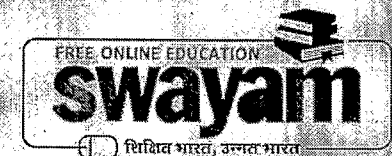
**A. Goswami**

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur



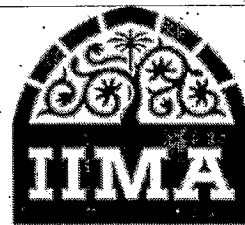
Indian Institute of Technology Kharagpur



**\*Continuous online assessment score**

To validate and check scores: <https://nptel.ac.in/noc>





विद्याविनियोगाद्विक्रमः

Jun 3, 2023

Himanshu Hora

has successfully completed

Leadership Skills

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

Vishal

Vishal Gupta  
Professor  
Organizational Behavior Area  
Indian Institute of Management Ahmedabad

COURSE  
CERTIFICATE



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

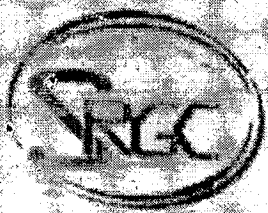
Assistant Professor, Department of Computer Application, Shri Ram College, Muzaffarnagar

**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 Ram Group of Colleges Muzaffarnagar

## A Token of Appreciation

The Chairman and the Founders of the SRGC have always praised the diversified venturous efforts for Institutional "Brand Making". Admission Counselling for students is one of the indispensable requirements at the moment. Admission counsellors work collaboratively involves reviewing incoming 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.



Dr. Sankalp Kulkarni





Confederation of  
Education Excellence



Work in Harmony  
Go with a Smile

# Certificate of Excellence

CONFERRED TO

**Mr. Himanshu Hora**

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

for

**Excellence in Education**

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

**International Education Conclave  
on**

**National Education Policy 2022**  
(Implementation, Challenges & Future Scope)

at USI Auditorium - New Delhi

**November 25<sup>th</sup>, 2022**

Mr. Anil Trigunayat

Chairman

Confederation of Education Excellence (CEE)



Ms. Shriti Arora

President

Confederation of Education Excellence (CEE)