Agenda for P.G. Faculty Meeting (I/2023) to be held on February 2, 2023 at 4:00 p.m. in the Conference Hall, College of Agriculture

Item No.	•	Description	
I/2023:01	:	Confirmation of Minutes of I/2022meeting of Board of Faculty (PGS) held on 12/03/2022 (Minutes have been already circulated and are available on university website under College of PGS)	
I/2023:02	:	Review of action taken on the decisions of I/2022meeting of BOF (PGS)	
I/2023:03	• •	Accreditation of faculty members for Post Graduate Research	
I/2023:04	• • •	Revision in degree nomenclature of Master's and Ph.D. Programmes as per BSMA (ICAR)	
I/2023:05		Admission Policy for Academic Year 2023-24 for PG and Ph.D. programmes of the university	
1/2023:06	:	Admission Policy (2023-2024) for MBA Programmes	
I/2023:07	:	Implementation of SWAYAM / MOOC courses in PG degree programs in disciplines of Technology and Agri-Business Management and transfer of their credits	
1/2023:08	:	Election of Secretary, Post Graduate Faculty	
1/2024:09	:	Any other item with the permission of Chair.	
(1)		 (i) Start of P.G. degree i.e. M.Sc. (Community Science) Extension Education & Communication Management as recommended by BSMA-ICAR from academic year 2023-2024 (ii) Course programme for M.Sc. (Community Science) Extension Education & Communication Management (iii) Syllabus for M.Sc. (Community Science) Extension Education & Communication Management 	
(2)		Admission Policy for Admission to Ph.D. in Management w.e.f. Academic Session 2023-2024	

Agenda I/2023:01: Confirmation of Minutes of I/2022meeting of Board of Faculty (PGS) held on 12/03/2022 (Minutes have been already circulated and are available on university website under College of PGS)

No comment/modification the minutes of I/2022 meeting held on March 12, 2022 has been received, therefore, the minutes as circulated were confirmed.

Item No. I/2023:02 Review of action taken (I/2022 meeting held on March 12, 2022)

Item No.	:	Accreditation of P.G. Faculty members for Post Graduate Research.
1/2022:3		Agenda for accreditation of 13 faculty members for Ph.D. research and 05 faculty members/scientists of outside institutions for Ph.D. research (with whom our University has entered into MoU) as approved by the P.G. Faculty has been approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:24.
Item No. I/2022:4	:	Admission Policy for Academic Year 2022-23 for PG and Ph.D. programmes of the university
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:19.
Item No.	:	Admission Policy (2022-2023) for MBA Programmes
1/2022:5		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:25.
Item No. I/2022:6	:	Revision in credits of Special Problem for Master's degree and start of new course Special Problem for Ph.D. degree
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:26.
Item No. I/2022:7	:	Revision in degree nomenclature of M.Sc. Ag. (Soil Science) and Ph.D. (Soil Science)
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:27 for further approval of the Board of Management. Accordingly, the proposal has been submitted for approval of Board of Management.
Item No.	:	Revision in nomenclature of Department of Clothing and Textiles to Textiles and Apparel Designing as recommended by the V th Dean's Committee of

1/2022:8		ICAR		
		The proposal submitted by Dean, Home Science to Academic Council was approved in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:17 for further approval of the Board of Management.		
Item No. I/2022:9	•	Revision in degree nomenclature of M.Sc. Home Science (Clothing and Textiles) and Ph.D. (Clothing and Textiles) as recommended by the V th Dean's Committee of ICAR		
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:28 for further approval of the Board of Management. Accordingly, the proposal has been submitted for approval of Board of Management.		
Item No. I/2022:10	:	Revision in nomenclature of Department of Home Science Extension as recommended by the V th Dean's Committee of ICAR		
		The proposal submitted by Dean, Home Science to Academic Council was approved in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:17 for further approval of the Board of Management.		
Item No. I/2022:11	••	Revision in nomenclature of Department of Family Resource Management to Department of Family Resource Management & Consumer Science as recommended by the V th Dean's Committee of ICAR		
		The proposal submitted by Dean, Home Science to Academic Council was approved in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:17 for further approval of the Board of Management.		
Item No. : I/2022:12		Revision in nomenclature of M.Sc. Home Science (Family Resource Management) and Ph.D. (Family Resource Management) as recommended by the V th Dean's Committee of ICAR		
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:29 for further approval of the Board of Management. Accordingly, the proposal has been submitted for approval of Board of Management.		
Item No. I/2022:13	••	Revision in degree nomenclature of M.Sc. Home Science (Human Development and Family Studies) as recommended by the V th Dean's Committee of ICAR		
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:30 for further approval of the Board of Management. Accordingly, the proposal has been submitted for approval of Board of Management.		

Item No. I/2022:14	•	Adoption of Common Academic Regulations for Post Graduate Programme in the university as per BSMA recommendations (Minutes of the Dean's Committee meeting held on 15/12/2021 have been already circulated)			
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:37.			
Item No. I/2022:15	•	Retaining of the nomenclature 'Minor courses' in Ph.D. as per recommendation of BSMA committee of ICAR			
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:40.			
Item No. : Restructuring and revision in Course Programme &Syllabi of M.S. I/2022:16 Ph.D. programmes as per BSMA recommendations		Restructuring and revision in Course Programme &Syllabi of M.Sc. and Ph.D. programmes as per BSMA recommendations			
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:40.			
Item No. I/2022:17	••	Revision in the limit on credits to be registered per semester (Maximum Credit Load) by Master's & Doctoral students			
		Approved by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:38.			
Item No. I/2022:18	••	Conduct of written comprehensive examination from Major & Minor course before oral comprehensive examination in Ph.D. programme			
		Ratified by Academic Council in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:36.			
1/2022:20(1)	••	Revision in nomenclature of Department of Foods and Nutrition to Department of Foods Science & Nutrition as recommended by the V th Dean's Committee of ICAR			
		The proposal submitted by Dean, Home Science to Academic Council was approved in its 392 nd meeting held on April 06, 2022 under agenda item no. 2022:392:17 for further approval of the Board of Management.			

Agenda I/2023:03: Accreditation of faculty members for Post Graduate Research

Proposal from 17 faculty members of our University and 12 from the institutions with whom GBPUAT, Pantnagar has signed MoU were received for accreditation. These proposals were discussed and examined by the Accreditation Committee in its meeting held on January 19, 2023 at 4:00 P.M.

The minutes of the meeting of Accreditation Committee alongwith brief bio-data of faculty members is annexed. The Accreditation Committee has recommended that the faculty members as mentioned below may be accredited for P.G. research in the programme noted against each.

SI. No.	Name of Faculty Member	Designation	Department	Recommended Accreditation level
1.	Dr. Kiran Rana	Asstt. Prof.	Agril. Comm.	Ph.D.
2.	Dr. Shweta Chaudhary	Asstt. Prof.	Agril. Ecnomics	Ph.D.
3.	Dr. A.K. Tripathi	Asstt. Prof.	Agril. Economics	Ph.D.
4.	Dr. Ruchi Rani Gangwar	Asstt. Prof.	Agril. Economics	Ph.D.
5.	Dr. Vineeta Rathore	Asstt. Prof.	Agronomy	Master's
6.	Dr. Anju Pal	Asstt. Prof.	Horticulture	Ph.D.
7.	Dr. Rashmi Panwar	Asstt. Prof.	Horticulture	Ph.D.
8.	Dr. Shweta Uniyal	Asstt. Prof.	Horticulture	Ph.D.
9.	Dr. Rashmi Tewari	Asstt. Prof.	Plant Pathology	Ph.D.
10.	Dr. Shailbala Sharma	S.R.O.	Plant Pathology	Ph.D.
11.	Dr. Subodh Prasad*	Asstt. Prof.	Information Technology	_
12.	Dr. Maneesh Tewari	Asstt. Prof.	Industrial & Production Engg.	Ph.D.
13.	Dr. Neetu Dobhal	Asstt. Prof.	Foods & Nutrition	Ph.D.
14.	Dr. Praneeta Singh	Asstt. Prof.	LPT	Ph.D.
15.	Dr. Jayant Gautam**	Asstt. Prof.	САВМ	Ph.D.
16.	Dr. Pooja Tamta	Asstt. Prof.	Home Science Extension	Master's
17.	Dr. Amit Prasad	Asstt. Prof.	Veterinary Medicine	Ph.D.
18.	Dr. Ujjwal Kumar De***	Senior Scientist	Veterinary Medicine, ICAR-IVRI	Ph.D.
19.	Dr. Pradeep Sharma#	Principal Scientist	Biotechnology, ICAR-IIWBR, RS-Shimla	Ph.D.
20.	Dr. Charu Lata#	Scientist	Biotechnology, ICAR-IIWBR, RS-Shimla	Master's
21.	Dr. Mamrutha HM#	Senior Scientist	Plant Physiology, ICAR- IIWBR, Karnal	Ph.D.

SI. No.	Name of Faculty Member	Designation	Department	Recommended Accreditation level
22.	Dr. Sneha Adhikari#	Scientist	Genetics & Plant Breeding ICAR-IIWBR, RS-Shimla	Master's
23.	Dr. Anuj Kumar#	Scientist (Sr. Scale)	Food Tech., ICAR-IIWBR	Master's
24.	Dr. Sunil Kumar#	Principal Scientist	Biochemistry, ICAR-IIWBR	Ph.D.
25.	Dr. Om Prakash#	Senior Scientist	Biochemistry, ICAR-IIWBR	Master's
26.	Dr. V. Vijaya Lakshmi##	Prof. & Univ. Head	Family Resource Management, PJTSAU, Hyderabad	Ph.D.
27.	Dr. Suresh Chandra****	Principal Scientist	Aquaculture, DCFR Bhimtal	Ph.D.
28.	Dr. B.P. Mallikarjuna Swamy###	Senior Scientist	Genetics & Plant Breeding IRRI, Philippines	Ph.D.
29.	Dr. Jonali Goswami####	Scientist / Engineer 'SF'	North Eastern Space Applications Center, Deptt. of Space, Govt. of India, Umiam, Meghalaya	Ph.D.

^{*}Application & brief bio-data was recommended & forwarded by Head, Information Technology and Dean, Technology. The House agreed to recommend the candidature for Ph.D. accreditation but Head, Information Technology and Dean, Technology were of the view that concerned faculty member does not possesses Ph.D. degree in Information Technology from an engineering college. Head, Information Technology and Dean, Technology informed that his degree is being verified at the level of CPO office and requested that till the decision from CPO is awaited his application shall be deferred.

^{**}Already recommended by Accreditation Committee in its meeting October 30, 2018 and II/2018 meeting of P.G. Faculty. However, the same was not approved by Academic Council in its 386th meeting held on 05-02-2019. The reasons were not mentioned in the minutes of Academic Council.

^{***}Already included in student Advisory Committee as per approval of Hon'ble Vice-Chancellor in anticipation of approval from Accreditation Committee, P.G. Faculty and Academic Council.

[#]As per provisions of MoU signed with ICAR-IIWBR, Karnal.

^{##}As per provisions of MoU signed with Professor Jayashankar Telangana State Agricultural University, Hyderabad.

^{****}Already accredited for Master's.

^{###}IRRI, Philippines is already in the list "Recognition of Institution for carrying out of research/course work" under Clause 34 of Chapter-V of Academic Regulations.

^{####} As per provisions of MoU signed with North Eastern Space Applications Center (NESAC), Umiam, Meghalaya.

The Scientists / faculty members at Sl. No. 20, 22, 23 & 25 applied for Ph.D. accreditation, however, considering their length of service, their accreditation is recommended for Master's level.

Minutes of the Accreditation Committee Meeting held on January 19, 2023 at 4:00 P.M. in the Committee Room of Directorate, Placement & Counselling

The following attended the meeting.

- 1. Dr. A.K. Verma, Senior Research Officer
- 2. Dr. Deepti Shankhdhar, Associate Professor
- 3. Dr. Anupama Pandey, I/C Home Science Extension
- 4. Dr. Seema Kwatra, Acting Head, Family Resource Management
- 5. Dr. S.K. Sharma, Head, Food Science & Technology
- 6. Dr. Ajay, Head, Industrial & Production Engineering
- 7. Dr. P. Prabhakaran, Head, Livestock Products Technology
- 8. Dr. R.K. Singh, Head, Agrometeorology
- 9. Dr. H.N. Singh, Head, Agricultural Economics
- 10. Dr. D.C. Dimri, Head, Horticulture
- 11. Dr. J.L. Singh, Head, Veterinary Medicine
- 12. Dr. Anuradha Dutta, Head, Foods & Nutrition
- 13. Dr. Ajit Kumar, Head, Information Technology
- 14. Dr. V.L.V. Kameswari, Head, Agricultural Communication
- 15. Dr. M.S. Pal, Head, Agronomy
- 16. Dr. A.K. Gaur, Head, Molecular Biology & Genetic Engineering
- 17. Dr. A.H. Ahmad, Acting Dean, V.A.Sc.
- 18. Dr. Avdhesh Kumar, Head, Aquaculture & Acting Dean, Fisheries
- 19. Dr. Salil Tewari, Head, Genetics & Plant Breeding and Acting Dean, Agriculture
- 20. Dr. K.P. Singh, Joint Director, Research
- 21. Dr. A.K. Sharma, Director, Extension Education
- 22. Dr. R.S. Jadoun, Dean, CABM
- 23. Dr. Sandeep Arora, Dean, CBSH
- 24. Dr. Alaknanda Ashok, Dean, Technology
- 25. Dr. K.P. Raverkar, Dean, PGS

The committee examined the applications of the following faculty members for their accreditation for PG research and recommended the following to guide Ph.D. research as mentioned against their names.

SI. No.	Name of Faculty Member	Designation	Department	Recommended Accreditation level
1.	Dr. Kiran Rana	Asstt. Prof.	Agril. Comm.	Ph.D.
2.	Dr. Shweta Chaudhary	Asstt. Prof.	Agril. Ecnomics	Ph.D.
3.	Dr. A.K. Tripathi	Asstt. Prof.	Agril. Economics	Ph.D.
4.	Dr. Ruchi Rani Gangwar	Asstt. Prof.	Agril. Economics	Ph.D.
5.	Dr. Vineeta Rathore	Asstt. Prof.	Agronomy	Master's
6.	Dr. Anju Pal	Asstt. Prof.	Horticulture	1/25/75-2
7.	Dr. Rashmi Panwar	Asstt. Prof.	Horticulture	Ph.D.
3.	Dr. Shweta Uniyal	Asstt. Prof.	Horticulture	Ph.D.
9.	Dr. Rashmi Tewari	Asstt. Prof.	Plant Pathology	Ph.D.

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10.	Dr. Shailbala Sharma	S.R.O.	Plant Pathology	Ph.D.
11.	Dr. Subodh Prasad*	Asstt. Prof.	Information Technology	SAMP2
12.	Dr. Maneesh Tewari	Asstt. Prof.	Industrial & Production Engg.	Ph.D.
13.	Dr. Neetu Dobhal	Asstt. Prof.	Foods & Nutrition	Ph.D.
14.	Dr. Praneeta Singh	Asstt. Prof.	LPT	Ph.D.
15.	Dr. Jayant Gautam**	Asstt. Prof.	CABM	Ph.D.
16.	Dr. Pooja Tamta	Asstt. Prof.	Home Science Extension	Master's
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20.	Dr. Charu Lata#	Scientist	Biotechnology, ICAR-IIWBR, RS-Shimla	Master's
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22.	Dr. Sneha Adhikari*	Scientist	Genetics & Plant Breeding ICAR-IIWBR, RS-Shimla	Master's
23.	Dr. Anuj Kumar [#]	Scientist (Sr. Scale)	Food Tech., ICAR-IIWBR	Master's
24.	Dr. Sunil Kumar	Principal Scientist	Biochemistry, ICAR-IIWBR	Ph.D.
25.	Dr. Om Prakash#	Senior Scientist	Biochemistry, ICAR-IIWBR	Master's
26.	Dr. V. Vijaya Lakshmi**	Prof. & Univ. Head	Family Resource Management, PJTSAU, Hyderabad	Ph.D.
27.	Dr. Suresh Chandra****	Principal Scientist	Aquaculture, DCFR Bhimtal	Ph.D.
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29.	Dr. Jonali Goswami****	Scientist / Engineer 'SF'	North Eastern Space Applications Center, Deptt. of Space, Govt. of India, Umiam, Meghalaya	Ph.D.

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***As per provisions of MoU signed with Professor Jayashankar Telangana State Agricultural University, Hyderabad.

****Already accredited for Master's.

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The Scientists / faculty members at Sl. No. 20, 22, 23 & 25 applied for Ph.D. accreditation, however, considering their length of service, their accreditation is recommended for Master's level.

(A.K. Verma) S.R.O., Biochemistry

(Seema Kwatra)
Acting Head, Family Resource
Management

(P. Prabhakaran) Head, Livestock Products Technology

> (D.C. Dimri) Head. Horticulture

(Ajit Kumar)
Head, Information Technology

(A.K. Gaur)
Head, Molecular Biology & Genetic
Engineering

(Salil Tewari)
Head, Genetics & Plant Breeding
and Acting Dean, Agriculture

(R.S. Jadoun)

Dean, CABM

(S.K. Sharma)

(Deepti Shankhdhar)

Assoc. Prof.

Head, Food Science & Technology

(R.K. Singh) Head, Agrometeorology

(J.L. Singh)
Head, Veterinary Medicine

(V.L.V. Kameswari)
Head, Agricultural Communication

(Avdhesh Kumar) Head, Aquaculture & Acting Dean,

Fisheries

(K.P. singh)
Joint Director, Research

Director, Extension Education

(Alaknanda Ashok)
Dean, Technology

(K.P. Raverkar) Dean, PGS

(Anupama Pandey)

I/C Home Science Extension

(Ajay)

Head, Industrial & Production

Engineering

(H.N. Singh)

Head, Agricultural Economics

(Anuradha Dutta)

Head, Foods & Nutrition

M.S. Pal

Head, Agronomy

H. Ahmad)

Acting Dean, V.A.Sc.

(A.K. Sharma)

-3-

(Sandeep Arora)

Dean, CBSH

^{***}Already included in student Advisory Committee as per approval of Hon'ble Vice-Chancellor in anticipation of approval from Accreditation Committee, P.G. Faculty and Academic Council.

#As per provisions of MoU signed with ICAR-IIWBR, Karnal.



BRIEF BIO DATA FOR ACCREDITATION OF FACULTY MEMBERS FOR PhD'S RESEARH

(03 copies are required)

1. Name : Kiran Rana

2. Designation : Assistant Professor 3. Date of Birth : 12/09/1983

3. Date of Birth : 12/09/1983 4. Department : Agricultural communication

5. College : Agriculture

6. Date of joining (as faculty member) 30/11/2015

i. Outside University: Worked as a Technical Assistant in Ministry of Agriculture, Department of Agriculture & Cooperation, KrishiBhawan, New Delhi from 01/07/2012to31/03/2014 on contractual basis under the scheme of National Food Security Mission! Crop Diversification Programme.

ii (a) in the University: w.e.f 30/11/2015 to till date

(b) On the present post : Assistant professor

 FIELD OF SPECIALIZATION: Women Empowerment through SHGs, ICT used for Empowerment, Women leadership and training

- 8. Publications:
 - 1. No. of research paper published: 22
 - 2. No of articles: 15
 - 3. Book chapter in books: 4
 - 4. Others: NIL
- 9. Details of course taught:
 - 1. Under Graduate Level:

Sl. No.	Title of Course	Credit Hours
1.	Communication skills for agricultural development AAC 307	(2-0-2)
2.	Entrepreneurship development in agriculture AAC308	(2-0-2)
3.	Behavioral Skills for management AAC395	2(0-0-2)
4.	Fundamentals of Agricultural Extension AAC306	3(2-0-2)
5.	Extension methodology for Transfer of technology AAC304	2(1-0-3)
6.	RAWE	01

2. Post Graduate Level:

Sl. No.	Title of Course	Credit Hours
1.	Fundamentals of development communication AAC 603	3(2-0-3)
2.	Training For Human Resource Development AAC635	3(2-0-3)
3.	Trends in extension education AAC 650	2(2-0-0)
4.	Foundation of human behavior AAC 602	3(2-0-1)
5.	Extension Landscape AAC 650	2(2+0)
6.	Advances in Agricultural Extension AAC 703	3(2+1)

10. No. of Master's students guided (in case of Ph.D. research): 07

Sl. No.	Name	Id.No.	Thesis Title	Year of completion
1	Pooja Goswami	46170	"Utilization Pattern of Agriculture Information Sources by farm women: A study in kumaun region of uttarakhand"	January,2021
2	Ajay Mamgain	53980	"Migration pattern of rural youth: a study in Garhwal division of uttarakhand"	January,2021 .
3	Vishaka Sawan	55350	"Empowernment of women gram pradhan through panchyati raj institution: A study in garhwal region of uttarakhand"	November,2021
4	Ishita Mishra	57075		
5	Shivani Yadav	Shivani 56717 "Women Empowernment through backyard poultry farming		August,2022
6	Shreya 50077 "A study on utilization of ICT tools by farmers of kumaun division of uttarakhand"		August,2022	
7	Himani Purohit	57052	"Attitude of farmers towards organic farming in garhwal division of uttarakhand"	gust,2022

Signature of

Signature of staff member

Signature of Dead College concerned

College of Agriculture
12)1/22

Signature of Dean PGS

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION

(03 copies are required on one page, on one side)

1. Name : Shweta Chaudhary

2. Designation : Assistant Professor

3. Date of birth : 21/01/1980

4. Department : Agricultural Economics

5. Educational Qualification : Ph.D

6. Field of Specialization : Agril. Economics



Cradit her

7. Experience as Faculty member:

(i) Outside the University :

(ii) (a) In the University ; w.e.f. to 21 Nov 2015 till date

(b) On present post Asstt. Professor, w.e.f. 21 Nov 2015 till date

8. Publications:

SINo

(a) No. of Research papers published : 30

(b) No. of articles published : 9

(c) Books/Chapters in books : 6

(d) Other publications, (abstracts) : 20

No & Title of the course

9. Details of courses taught:

SLIN		Credit hrs.
U.G.	Level:	
î.	AEC-322 , Agricultural Marketing, International Trade and Prices	- 3
ii.	AEC-342 , Agricultural Cooperation Finance and Business Management	3
iii.	AEc-332 , Farm Management , Production and Resource Economics	2
iv	AEC-201, Fundamentals of Agricultural Economics	2

.G. Le		Credit hrs.
SI.No.	No. & Title of the course	
1000 MANAGE 1	AEC-651 ,Agricultural policy	3
i.	AEC-602, Economics of development and growth.	3
ii.		3
iii.	AEC-665 Advance Agricultural Finance	. 03

iii.	ided (in case of Ph.D. research)
10.	No. of Master's students guided (in case of Ph.D. research)

0. No. of Master's stud	ents guided (in case of	Thesis title	Year of completion
Name	Date		Nov. ,2020
Mandeep Kaur	46190	processing of milk and milk products of Aanchal milk plant in U.S.Nagar Distt. Of Uttarakhand	
		analysis of farmer	Dec.,2021
Neema	55544	An Economic analysis producer organizations in Garhwal Distr. Of Uttarakhand Growth, instability and determinants of production of major livestock products in India	
			Sept.,2022
Sanjivini	50071		

Signature of staff member

Signature of Dean College Concerned

College of Agriculture

11 | 12 | 22

Deptt. of Agril. Economics
G.B. Pant Univ of Agric. & Tech
PANTNAGAR-263145
Dieft U.S. Nagar (Uttarakhand)

Signature of Dean PGS



1. Name : Dr. Ajay Kumar Tripathi
2. Designation : Assistant Professor
3. Date of birth : 25/07/1980
4. Department : Agricultural Economics

Educational Qualification : Ph.D.

6. Field of Specialization : Agricultural Marketing,

Cooperation Finance and

Insurance

7. Experience as Faculty member : 07 Years

(i) Outside the University : w.e.f. 23-01-2014 to 31-08-2015 till date

(ii) (a) In the University : w.e.f 27-11-2015 till date w.e.f. 27-11-2015 till date

Publications 49

(a) No. of Research papers published 17

(b) No. of articles published : 24

(c) Books/Chapters in books : 08
(d) Other publications, if any :

9. Details of courses taught:

8.

SLN	No. & Title of the course U.G. Level:	Credit hrs.
i.	AEC-331 Farm Management, Production and NRE	3(1-2-1x3)
ii.	AEC -365 Project Formulation, Evaluation and Monitoring	3(1-0-2x2)
iii.	AEC-341 Agricultural Cooperation, Finance and Business Management	2(2-0-1x3)
iv.	AEC- 200 General Economics	2(2-2-0)
V.	AEC- 321 Agricultural Marketing, International Trade & Prices	3(2-0-1x3)
vi.	AEC 332 Farm Management, Production and Resource Economics	2(1-2-1x2)
vii.	AEC 201 Fundamentals of Agricultural Economics	2(2-2-0)
viii.	AEC 322 Agricultural Marketing, Trade & Prices	3(2-0-1x2)
ix.	AEC 342 Agricultural Finance and Cooperation	3(2-0-1x2)

P.G. Level:

î.	Advance A 1 1 1 mg		
	Advance Agricultural Finance	3(2-0-1x3)	
ii.	Agricultural Marketing and Price Analysis	2(1-1-1x3)	
iii.	Project Planning, Appraisal and Financing	2(1-0-1)	
iv.	Research Methodology for Social Sciences	2(1-0-1x3)	

Name	. 45,58	ID. NO.	Thesis title	Year of completion
1.	Ms. Seema Arya	54085	GROWTH AND INSTABILITY IN SUGARCANE PRODUCTION IN UTTARAKHAND.	2020
2.	Ms. Himani Dhoundiyal	48327	ECONOMIC PERFORMANCE OF SOIL HEALTH CARD HOLDERS IN UDHAM SINGH NAGAR DISTRICT OF UTTARAKHAND.	2021
3.	Ms. Prachi Vaishnava	49878	SOCIO-ECONOMIC STUDY OF OUT MIGRATION IN HILL OF UTTARAKHAND.	2022

Signature of staff member

Signature of Dean College Concerned Dean

College of Agriculture

11 122

Signature of Head of the Deptt.

Professor & Head
Deptt. of Agril. Economics
G.B. Pant Univ. of Agric. & Tech
PANTNAGAR-263145
Distt. U.S. Nagar (Uttarakhuru),

Signature of Dean PGS

DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION

(03 copies are required on one page, on one side)

Name
 Besignation
 Date of birth
 Ruchi Rani Gangwar
 Assistant Professor
 16/06/1981

4. Department : Agricultural Economics

5. Educational Qualification : Ph.D

6. Field of Specialization : Agricultural Economics



7. Experience as Faculty member:

(i) Outside the University : -

(ii) (a) In the University : w.e.f. 23/11/2015 to till date (b) On present post w.e.f. 23/11/2015 to till date

8. Publications:

(a) No. of Research papers published : 25 (b) No. of articles published : 10

(c) Books/Chapters in books : 1 chapter/ 3 books

(d) Other publications, if any

Sl.No	No. & Title of the course	Credit hrs.
	U.G. Level:	
i.	AEC-322, Agricultural Marketing, Trade & Prices	3(2-0-2x2)
ii.	AEC-405, Agribusiness Management	3(2-0-1x2)
iii.	AEC-332, Farm Management, Production and Resources Economics	2(1-2-2x2)
iv.	AEC-201,Fundamentals of Agricultural Economics	2(2-2-0)
v.	AEC-210Introduction to Economics & Marketing	2(1-0-1x1
vi.	AEC-310Economics, Marketing and Project Formulation	3(2-0-1)
vii	AEC-342Agricultural Finance and Cooperation	2-0-2x2)
	P.G. Level:	
i.	AEC-618 Research methodology for Social Sciences	2(1-0-1x3)

i.	AEC-618 ,Research methodology for Social Sciences	2(1-0-1x3)
ii.	AEC-515Linear Programming Methods	2(1-1-1x3)
iii.	AEC-601Special Problems	1(0-0-1x3)

10. No. of Master's students guided (in case of Ph.D. research)

Name	ID.NO	Thesis title	Year of completion
1. Shivam Dhiman	53937	Economics of production and marketing of mushroom in Dehradun district of Uttarakhand	December, 2020
2. Sachin Kumar	48416	Women empowerment through SHG promoted enterprises in U.S.Nagar district of Uttarakhand	January, 2022
3.Karishma Panwar	49915	Impact of krishi vigyan kendra (kvk) on adoption of farme technologies and income of farmers-a case study of KVK Jeolikote	September, 2022

Signature of staff member

Signature of Dean College Concerned

College of Agriculture

Signature of Head of the Deptt.
Deptt. of Agril. Economics
G.B. Pant Univ. of Agric. & Tech
PANTNAGAR-263145
Distt. U.S. Nagar (Uttarakhand,

Signature of Dean PGS

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BRIEF BIO-DATA FOR MASTER'S/Ph.D. ACCREDITATION

1,	Name ,	1:	Dr. Vineeta Rathore
2.	Designation	1:	Assistant Professor
3.	Date of birth	†÷	23 June, 1981
4.	Department	1	Agronomy
5.	Educational Qualification	1:	Ph.D.
6.	Field of Specialization	1	Weed management, Rapeseed and mustard Agronomy
7.	Experience as Faculty member:	-	rreed management, Rapeseed and mustard Agronomy
	(i) Outside the University	:	2 years 9 months (CCS HAU, Hisar as Assistant Scientist) w.e.f. October 26, 2017 to July 09, 2020
	(ii) (a) In the University (b) On present post	:	Post Doctoral fellow w.e.f. October 2007 to September 2011 Assistant Professor w.e.f. July 13, 2020 to till date
8.	Publications:		resistant i fotessor w.e.g. July 13, 2020 to till date
	(a) No. of Research papers published	:	15
	(b) No. of articles published	1	12
	(c) Books/Chapters in books	*	2 Books and 6 Book chapters
	(d) Other publications, if any		1 Bulletin, 3 Extended summaries & 36 Abstracts
9.	Details of courses taught:		- Sancting 5 Extended summaries & 30 Abstracts

Under Graduate Level:

Course No.	Title of Course	Credit Hours
	At GBPUA&T., Pantnagar	
APA 319	Organic Farming	2
APA 323		2
APA 318		
APA 324	Crop Production- II (Rabi)	2
APA 310		2
APA 351	Practical crop Production (PCP)	2
AWP 101		2
ARE 399	RAWE & AIA	1 20
	At CCS HAIL Higgs	20
FOR 101	Environmental Science	2
AGRON 101		2
AGRON 303		4
AGRON 202	Crop Production Technology - II (Rahi crops)	2
	APA 319 APA 323 APA 318 APA 324 APA 310 APA 351 AWP 101 ARE 399 FOR 101 AGRON 101 AGRON 303	At GBPUA&T., Pantnagar APA 319 Organic Farming APA 323 Crop Production—I (Kharif) APA 318 Rainfed Agriculture and Watershed management APA 324 Crop Production—II (Rabi) APA 310 Geo-Informatics and Nanotechnology for Precision farming APA 351 Practical crop Production (PCP) AWP 101 Work Programme ARE 399 RAWE & AIA At CCS HAU, Hisar FOR 101 Environmental Science AGRON 101 Fundamentals of Agronomy AGRON 303 Geoinformatics & nanotechnology for precision farming

Post Graduate Level:

Sl. No.	Course No.	Title of Course	Credit Hours
		At GBPUA&T., Pantnagar: Nil	Credit Hours
		At CCS HAU, Hisar	
1,	AGRON 507	Agronomy of oilseed, fibre and sugar crops	3

10. No. of Master's stu	idents guided (in case of Ph	Nil (At Pantnagar)		
Name	ID.NO.	Thesis title	Year of completion	

Assistant Professor
Department of Agronomy
College of Agriculture
G.B.P.U.A.&T., Pantnagar

College of Agriculture

Signature of Dean PGS DEAN, P.G.S.

Agronomy

Signature of

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (3 copies are required on one page, on one side)



(c)	Books/Chapters	in books : 05	
9.			
i.	Courses Taug	ht	
2.	Under Gradu	ate Level:	
Sl. No.	Course No.	Title of Course	Credit Hours
1.	APH-319	Production Technology for ornamental crops and MAPCrops and landscaping	2
2.	APH-386	Nursery management of horticultural crops	2
3.	ARE-390	RAWE	18
4.	APH-310	Fundamental of Horticulture	2
5.	APH-320	Ornamental Horticulture (Agriculture)	3
6.	APH-320	Ornamental Horticulture (Home Science)	3
7.	APH-403	Landscaping	3
8.	APH-409	Hi-tech Horticulture	3
b.	Post Graduat	e Level:	
Sl. No.	Course No.	Title of Course	Credit Hours
1.	APH-551	Breeding of Ornamental and floricultural crops	3
2.	APH-751	Advances in breeding of ornamental crops	3

Name	ID.NO	Thesis title	Year of completion
1. Mr.Ajai Dhyani	54130	Varietal evaluation of Dahlia (Dahlia variabilis L.) under tarai condition of Uttarakhand	2020
2. Ms. Priyanka Rilkotia	48417	Studies on Genetic Variability in Dahlia (Dahlia variabilis L.) under Tarai condition of Uttarakhand	2021
3. Ms. Snehi Chauhan	56964	Assessment of growth, Flowering and Yield Attributes in African Marigold as Influenced by Zinc	2022

Nanoparticle

10 No. of Macter's students guided (in case of Ph.D. research): 03

Signature of Dean College Concerned

College of Agriculture

8/12/22

Signature of Dean PGS

Signature of Head of the Deptt.

DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION

(03 copies are required on one page, on one side)

Name Dr. Rashmi Panwar Designation Assistant Professor Date of birth 25.11.1979 Department Horticulture

Educational Qualification Ph. D. Field of Specialization Horticulture (Fruit Science)



2 Experience as Faculty member:

w.e.f. to (i) Outside the University : 10.10.2011 to 03.12.2015

(ii) (a) In the University : 04.12.2015 (b) On present post 04.12.2015

1. Publications:

(a) No. of Research papers published : 24 (b) No. of articles published 10 (c) Books/Chapters in books 01

(d) Other publications, if any Abstracts: 29, Technical bulletin: 02, Technical Folder: 05

y	Details of courses taught:	
Sl.No.	No. & Title of the course	
	U.G. Level:	19119-
1.	APH 456 Nutrition Gardening	3
2.	APH 311 Fundamentals of Horticulture	3
3.	AWP101 Work Programme	1
4.	APH386 Nursery management of horticultural crops	2
5.	APH 390 RAWE	18
6.	APH 319 Production Technology of Ornamental Crops, MAP and Landscaping	2
7.	APH 314 Production Technology for Fruit and Plantation Crops	2
8.	APH 310 Fundamental of Horticulture	2
9.	NSS 101National Service Scheme	1
10.	NSS 102National Service Scheme	1
	P.G. Level:	
1.	APH 541 Tropical and Dry Land Fruit Production	3
2.	APH 543 Biodiversity and Conservation of Fruit Crops	3

10.No. of Master's students guided (in case of Ph.D. research): 03

Name	ID.NO	Thesis title	Year of completion
1.Ms. Pratibha Bhatt	48415	INFLUENCE OF INDOLE-3-BUTYRIC ACID AND BIOFERTILIZERS ON ROOTING AND SURVIVABILITY OF PANT LEMON-1 STEM CUTTINGS	2021
2.Ms. Prachi Pant	53930	Response of foliar application of zinc and boron on growth, yield, fruit quality and leaf nutrient status of lemon (Citrus limon Burm.) cv. Pant Lemon-1	2021
3.Ms. Himani Rawat	55332	Effect of indole-3-butyric acid and season on rooting and shooting behavior of semi-hardwood cuttings of lemon (Citrus limon Burm.) cv. Pant Lemon-1	2021

Signature of Dead Collège Concerned College of Agriculture

d Horticulture

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

Name : Dr. Shweta Uniyal 2. Designation Assistant Professor 3. Date of birth 11.10.1985 4. Department Horticulture 5. **Educational Qualification** Ph. D.

6. Field of Specialization : Horticulture (Fruit Science)

7. Experience as Faculty member: w.e.f. to

(i) Outside the University (ii) (a) In the University 23.11.2015

(b) On present post 23.11.2015

to till date 8. Publications:

(a) No. of Research papers published : 20 (b) No. of articles published 10 (c) Books/Chapters in books 05

(d) Other publications, if any : Review Papers: 04, Technical bulletin: 01, Technical Folder: 01

9. Details of courses taught:

Sl.No.	No. & Title of the course	Credit hrs.
	U.G. Level:	
i. 🔾	CFH-392 Production management of medicinal and aromatic crops	2
ii.	APH-386 Nursery management of horticultural crops	2
iii.	ARE-390 RAWE	18
iv.	APH-310 Fundamental of Horticulture	2
v.	APH-314 Production Technology for Fruit and Plantation Crops	2
vi.	APH-409 Hi-tech Horticulture	3
	P.G. Level:	
i.	APH-544 Canopy management in fruit crops	3
ii.	APH-546 Breeding of Fruit Crops	3
iii.	APH-742 Advances in production of fruit crops	3
iv.	APH-741 Advances in breeding of fruit crops	3

10.No. of Master's students guided (in case of Ph.D. research): 03

Name	ID.NO	Thesis title	Year of completion
1. Ms. Kanupriya	46019	Effect of Rootstocks and IBA on Graft Success and Growth of Peach (Prunus persica L. Batsch) propagated by Stenting	2020
2. Mr. Shubham Jagga	48434	Response of preharvest sprays of calcium and putrescine on postharvest quality of peach (Prunus persica L. Batsch) during storage	2021
3. Ms. Kiran Dhami	48404	Response of different coatings on physico-chemical traits and shelf life of lemon fruits cv. Pant Lemon-1	2021

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College of Agriculture

BRIEF BIO-DATA FOR PH.D. ACCREDITATION

1. Name 2. Designation Dr. Rashmi Tewari

Assistant Professor, Plant Pathology

3. Date of birth

21.06.1982 Plant Pathology

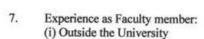
4. Department

5. Educational Qualification Ph. D.

Field of Specialization 6.

Plant Pathology (Seed health

Technology, IPM)



Nil

(ii) (a) In the University (b) On present post

w.e.f. 20.11.2015 w.e.f. 20.11.2015

to till date to till date

8. Publications:

(a) No. of Research papers published (b) No. of articles published

23 18

(c) Books/Chapters in books

03

(d) Other publications, if any

Papers in Proceedings-15, Working Sheets-02, Fact

Sheets-33, Extension Material/leaf lets/folders-04

Details of courses taught:

SLNo).	No. & Title of the course	Credit hrs.
		U.G. Level	
i.	APP-401	Introductory Plant Pathology	3 (2+1)
ii.	APP/APE-322	Integrated Pest and Disease Management	2(1+1)
iii.	APP-314	Crop diseases and their management	2(1+1)
iv.	APP-311	Fundamentals of plant pathology	4 (3+1)
v.	APP/APE-332	Principles of Integrated Pest and Disease Management	3 (2+1)
vi.	APP/APE-207	Principles of Horticultural Crops and Plant Protection	2 (1+1)
vii.	ARE 390	RAWE	18
	SALES HEADERS	P.G. Level	
i.	APP 606	Principles of Plant Disease Management	3 (2+1)
ii.	APP 604	Principles of Plant Pathology	3 (3+0)
iii.	APP 611	Chemicals in Plant Disease Management	3 (2+1)
iv.	APP-710	Seed Health Technology	3 (2+1)
vi.	APP-607	Plant Biosecurity and Biosafety	2(2+0)

No. of Master's students guided (in case of Ph.D. research)

Name	ID.NO.	Thesis title	Year of completion
Mr. Nagarjuna S. N.	52560	Seed- borne Nature and management of Alternaria alternata (Fr.) Keissl., the cause of Fruit Rot in Chilli (Capsicum annum L.)	July, 2019
Mr. Rangnatha T.	54216	Antifungal Properties of Medicinal Plant Extracts against Seed-borne Fungi	February, 2021
Ms. Vidya Dev	55338	Antifungal Properties of Vrikshaurveda based Herbal Kunapjala against Seed-borne Fungi	August, 2022

Signature of staff member Parlimiterari

Signature of Head of the Deptt. Pathology

Zayana

College of Agriculture G.B. Pant University of Agric. & Tech. Cantnagar 263 145 (Uttarakhand)

Signature of Dean College of Agriculture

College of Agriculture

Signature of Dean PGS DEAN, P.G.S. AT0112023

BRIEF BIO-DATA FOR PH.D. ACCREDITATION (03 copies are required on one page, on one side)

Name
 Designation
 Date of birth
 Dr. Shailbala Sharma
 Senior Research Officer
 30-06-1979

3. Date of birth : 30-06-1979 4. Department : Plant Pathology

5. Educational Qualification : Ph.D

6. Field of Specialization : Potato Pathology

Experience as Faculty member:

(i) Outside the University : w.e.f. 19-05-2006 to 20-02-2019 (ii) (a) In the University : w.e.f. 21-02-19 to till date (b) On present post w.e.f.18-05-2018 to till date

Publications:

(a) No. of Research papers published : 34
(b) No. of articles published : 63
(c) Books/Chapters in books : 4

(d) Other publications, if any : Lab manual- 1, technical bulletin- 3, abstract-28

9.	Details of courses taught:	
Sl.No.	No. & Title of the course	Credit hrs.
	U.G. Level:	
i.	Diseases of field and Horticultural crops and their management -I	3
ii.	Diseases of field and Horticultural crops and their management -II	3
iii.	Principles of Integrated Pest and Disease Management	3
iv.	RAWE	18
	P.G. Level:	X7-13-13-13-13-13-13-13-13-13-13-13-13-13-
i.	Principles of Plant Pathology	3
ii.	Detection and diagnosis of plant diseases	2
iii.	Ecology of Soil Borne Plant Pathogens	3
iv.	Epidemiology and forecasting of plant diseases	3

10. No. of Master's students guided (in case of Ph.D. research)

S. No.	Name	ID	Thesis title	Year of completion
1.	Mr. Malis Elinana Were Iyeggah	54245	Management of early blight of potato caused by Alternaria solani (Ellis and Martin)	Feb, 2021
2.	Mr. Suraj Adhikari	48310	Eco-friendly management of black scurf of potato caused by Rhizoctonia solani Kuhn	August, 2021
3.	Ms. Shamli Chauhan	50065	Role of weather parameters on potato late blight disease caused by <i>Phytophthora infestans</i> (Mont.) de Bary and its chemical management	June, 2022

Signature of staff member Plant Pathology

College of Agriculture G.B. Pant University of Agric. & Tech Pantnagar- 263 145 (Uttarakhand)

Signature of Dean College Concerned

College of Agriculture

Plant Pathology

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

 1. Name
 : MANEESH TEWARI

 2. Designation
 : Assistant Professor

 3. Date of birth
 : 18.01.1970

 4. Department
 : Industrial & Production Engineering

Educational Qualification : Ph.D.

6. Field of Specialization : Production Engineering/ Welding

Experience as Faculty member:
 (i) Outside the University : Nil

(ii) (a) In the University : w.e.f. 26.9.2006 till date
(b) On present post : w.e.f. 26.9.2006 till date

Publications:
 (a) No. of Research papers published

(b) No. of articles published : - (c) Books/Chapters in books : 01 (d) Other publications, if any : -

9.	Details of courses taught:	
SL No.	No. & Title of the course	Credit hrs.
	U.G. Level:	
i.	TPE-471, Workstudy	3(3-2-0)
ii.	TIP-202, Foundry & Welding Technology	2(3-0-2)
iii.	TPE-269, Machine Tool Engineering	3(3-2-0)
iv.	TPE-364, Foundry Technology	4(3-0-2)
v.	TPE-368, Welding & Allied Practices	4(3-0-2)
vi.	TPE-161 Workshop Practice	3(1-0-2x3)
vii.	TIP-454, Principles of Management (ECE)	2(2-2-0)
	P.G. Level:	
i.	TPE-680, Supply Chain Management	2(2-1-0)
ii.	TIP-668, Manufacturing Management	2(2-2-0)
iii.	TIP-650, Quality & Process Control	(3-0-0)
iv.	TIP-666, Advanced Welding Technology	3(2-0-1x3)

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10.	No. of Master's students	guided (in case of Ph.D. research)
	Tio. of triadict a studelita	guided (iii ease of I ii.b. research)

Name	ID. NO.	Thesis title	Year of completion
1. Mr Saurav Semwal	53899	Parametric Optimization and Microstructural Study of IS2062 Mild Steel Weld Joints by Submerged Arc Welding with Application of TiO ₂	2021
2. Ms Shikha Pant	49253	Nanoparticles Inclusions. Parametric Investigation and Optimization of Submerged Arc Welding Process for IS 2062 and MS 10748 Weld.	2021
3. Mr Himanshu Krishna Rai	56987	Parametric Investigation and Optimization of Resistance Spot Welding of HR E34 SS 4012A Low Alloy Steel by Using Taguchi Methodology	2022

Signature of staff member

Signature of Dean College Concerned

DEAN 26.12.22

College of Tool hology Partnegar 263145

Distt. U.S. Nagar (Uttarakhand)

Signature of Head of the Deptt

Signature of Dean PGS

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BRIEF BIO-DATA FOR PH.D. ACCREDITATION

Neetu Dobhal 1. Name Assistant Professor Designation 25.03.1979 Date of birth 3. Foods and Nutrition Department 4. Ph.D. Human Nutrition **Educational Qualification** 5.



Food Science, Human Nutrition, Community Nutrition Field of Specialization

Experience as Faculty member:

(i) Outside the University w.e.f. 20.05.2006 to till date * (ii) (a) In the University w.e.f. 20.05.2006 to till date (b) On present post

Publications:

11 (a) No. of Research papers published (b) No. of articles published 08 05 (c) Books/Chapters in books (d) Other publications, if any 07 Abstracts 02 Chapters in Training Manuals 02 Booklets 02

9. I	Course content developed : 02 Details of courses taught:	Credit hrs.
SI. No.	No. & Title of the course	
1101	U.G. Level:	3(3-0-0)
i.	HFN-337 Principles of Human Nutrition	3(2-0-1)
ii.	HFN-338 Food Science, Processing and Storage	3(1-0-2)
iii.	LIEN 239 Nutrition Education	3(2-0-1)
iv.	HFN-340 Normal and Therapeutic Nutrition	3(2-0-1)
v.	HFN-366 Clinical Nutrition	4(4-0-0)
vi.	HFN-441 Human Nutrition	4(2-0-2)
vii.	TIEN 443 Community Nutrition	5(2-0-3)
viii.	HFN-445 Diet Therapy and Nutrition Counselling	4(3-0-1)
ix.	UEN_447 Food Chemistry	4(2-0-2)
X.	HFN-448 Food Hygiene and Sanitation	4(2-0-2)
xi.	UEN 440 Food Analysis	4(2-0-2)
xii.	HFN-454 Food Standards and Quality Control	2(2-0-0)
xiii.		6(0-0-6)
xiv.	test of the state	6(0-0-60
XV.	HFN-495 Experiential Learning in Diet and Nutrition Countries	1(0-0-1)
xvi.	HFN-497 Seminar	10
xvii.	HIT-499 In-Plant Training	
	P.G. Level.	Credit hrs
Sl.No.	No. & Title of the course	3(3-0-0)
i.	HFN-551 Advanced Nutrition	3(2-0-1)
ii.	HFN-552 Advances in Community Nutrition	3(2-0-1)
iii.	HFN-543 Ecology of Mainutrition	1(0-0-1)
iv.	HFN-601 Special Problem	

10. N	o. of Master's st	udents g	uided . Thesis Title	Year of
Sl. No.	Name	ID. NO.	Nutritional Composition of Garden Cress Seeds (Lepidium sativum L.) Flour	completion 2021
1.	Ms. Manju			Likely to be
2.	Mr. Deepak Joshi	50038	Physico-chemical evaluation of raw and ripe papaya peel powder and incorporated ready to eat snacks Comparative study on nutritional composition of raw and germinated quinoa	completed by September,
3.	Ms. Medishetty Anuhya	55525	Comparative study on nutritional composition of ready-to-eat (RTE) snack (Chenopodium quinoa) flour and development of ready-to-eat (RTE) snack	2022

Signature of staff

Signature of Dean College Con

Signature of Head of the Deptt.

200er wer Signature of Dean PGS DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

Praneeta Singh 1. Name

Assistant Professor (LPT) 2. Designation

31-12-1980 3. Date of birth

Livestock Products Technology Department 4.

Ph.D (Livestock Products Technology) 5. Educational Qualification

Meat Technology 6. Field of Specialization

7. Experience as Faculty member:

> (i) Outside the University N.A.

w.e.f.26-11-2010 to till date (ii) (a) In the University w.e.f.26-11-2010 to till date (b) On present post

8. Publications:

(a) No. of Research papers published 37 59 (b) No. of articles published (c) Books/Chapters in books 03

03 review papers, 07 Practical manuals (d) Other publications, if any

Details of courses taught:

SLNo.	No. & Title of the course	Credit hrs.
	U.G. Level:	
	LPT-311 Milk and Milk Products Technology	1+1
ii.	LPT-312 Abattoir practices and Animal products Technology	1+1
iii.	VLT-413 Egg and Poultry products Technology	2+1
iv.	LPT-321 Meat Science	1+1
v.	LPT-300 Livestock Products Technology	2+1
	P.G. Level:	
i.	LPT-602 Meat processing, Packaging, Quality control and Marketting	2+1
ii.	LPT- 603 Poultry and Fish Products Technology	1+1
iii.	LPT-605 Abattoir and Poultry Processing Plant Practices	1+1
iv.	LPT-608 Market Milk Processing and Dairy Plant Practices	2+1

10. No. of Master's students guided (in case of Ph.D. research)					
Name	ID.NO	Thesis title	Year of completion		
1. Yogesh Kumar	44090	Effect of Lemon Juice and Ginger Extract Marination on Meat Quality Attributes of Spent Hen Raw Breast Meat and Chicken Tikka	2014		
2. Chetana Pant	34475	Comparative Studies on Quality Characterstics of Meat and Meat Products From Pure Bred and Cross Bred Uttara Fowl with Rhode Island Red	2014		
3. Deepika Kunwar	38183	Effect of Broccoli (Brassica oleracea var. italica) Powder	2016		

Signature of staff mer

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Signature of of Livetock tollege of Ve y & Animal Sci gric & Tech B Part 1 NAO Signature Wr Dearpros

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1. Name : Dr. Jayant Gautam
2. Designation : Assistant Professor
3. Date of Birth : 21/02/1988

4. Department : College of Agribusiness Management

5. Education Qualification : Ph.D. 6. Field of Specialization : Finance

7. Experience as faculty member :

(i) Outside the university : Nil (ii) (a) In the university : w.e.f. 20-Nov-2015 till date

(b) On present post : w.e.f. 20-Nov-2015 till date

8. Publications:
(a) No. of research papers published : 07
(b) No of articles published : 01

(c) Books/chapters in books : None (d) Other publication, if any : None

Details of course taught:

P.G. Level:

SL No.	Course No.	Title of Course	Credit Hours
1	MAM-626	Marketing Research	3(2-0-1)
2	MAM-561	Financial Accounting	2(2-2-0)
3	MAM-623	International Marketing and Finance	2(2-1-0)
4	MAM-502	Business Statistics & Data Analysis	1(1-1-0)
5	MAM-511	Research Methodology in Management	2(1-1-1)
6	MAM-611	Research Methods in Management	2(1-1-1)
7	MAM-724	Research for Marketing Decisions	3(2-0-1)
8	MAM-663	Commodities, Options and Derivatives	2(2-0-1)
9	MAM-665	Forwards, Options and Derivatives Management	3(2-0-1)
10	MAM-762	Investment Analysis and Portfolio Management	3(2-1-1)
11	MAM-622	Rural Marketing	1(1-1-0)
12	MAM-620	Marketing Management	3(2-0-1)
13	MAM-761	Agribusiness & Rural Finance	2(1-1-1)
14	MAM-699	Project	10(0-0-30)
15	MAM-672	Industrial Attachment	0(0-0-0)

10. No of Masters students guided (in case of Ph.D. research) - 36

SI. No.	Name	ID. No.	Thesis Title	Year of completion
01	Ms. Ayushi Singh	44559	Financial performance of life insurers in Indian insurance industry.	2018-19
02	Ms. Mamta Bisht	46161	Study of Growth of MSME in India and their	
03	Mr. Amzad	48534	A Study on Analyzing the Impact of Service Quality on Customer Satisfaction in Life Insurance Services in Uttarakhand.	2020-21
04	Mr. Manish Kumar	55292	Study on Pradhan Mantri Jan Dhan Yojana Program and its effect on Financial Markets in India	2020-21

Signature of staff member

Signature of Dean College Concerned

Signature of Head of the Deptt.

DEAN, P.G.S

BRIEF BIO-DATA FOR MASTER'S ACCREDITATION

 1. Name
 : Dr. Pooja Tamta

 2. Designation
 : Assistant Professor

 3. Date of birth
 : 27-11-19486

4. Department : Home Science Extension

5. Educational Qualification : Ph.D., M.Sc., B.Sc.

6. Field of Specialization : Agriculture Extension, Home Science Extension

Experience as Faculty member:

(i) Outside the University : Nil

(ii) (a) In the University : w.e.f. 23-11-2015 to till date (b) On present post : w.e.f. 23-11-2015 to till date

8. Publications:

(a) No. of Research papers published : 01 (b) No. of articles published : 08 (c) Books/Chapters in books : 02

(d) Other publications, if any : 10 Bulletin

Details of courses taught:

No	Course No.	Title of the course	Credit hrs.
-		U.G. Level:	
i.	HEX-361	Communication & Instructional Technology (B.Sc. Home Science students)	3(1-0-2)
ii.	HEX-491	Interpersonal Communication in Developing Societies (B.Sc. Home Science students)	3 (3-0-0)
iii.	HEX-487	Computer Application for Journalism and Mass Communication (B.Sc. Home Science students)	4(1-0-3)
iv.	HEX-368	Programme Development for Rural Families (B.Sc. Home Science students)	4(2-0-2)
v.	HEX-367	Introduction to Extension Education (B.Sc. Home Science students)	2(2-0-0)
vi.	HRW-498	Rural Awareness and Work Experience	10
vii.	HEX-481	Introduction to Journalism (B.Sc. Home Science students)	5(3-0-2)
viii.	HEX-489	Educational Videography	3 (1-0-2)
ix.	HEX-300	Extension Education and Rural Development	2(2-0-0)
X.	HEX-301	Women in Agriculture	3(3-0-0)
xi.	HEX-303	Extension Training Management	3(1-0-2)
xii.	HEX-304	Information and Communication Technology	3(1-0-2)
xiii.	HEX-498	Rural Awareness and Work Experience	10
xiv.	HEX-495	Hands on training in Print and Electronic Media Production	20

P.G. Level:

i. HEE-581 Research Methodology in Community Science (ongoing) 3(2-0-1)

10. No, of Master's students guided (in case of Ph.D. research): NIL

Signature of staff member

Signature of Dean College Concerned

Bean H.Sc.

Signatur Pointe Science Extension College of Home Science Pantnagar-263145 (Uttaration

Signature of Dean PGS

DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1.	Name	1:	Dr. Amit Prasad		
2.	Designation	:	Assistant professor		
3.	Date of birth	:	04-11-1981		
4.	Department	:	Veterinary Medicine	199	
5.	Educational Qualification	:	Ph.D.		
6.	Field of Specialization	:	Veterinary Medicine		
7.	Experience as Faculty member:		10 year	1 Metaboliman de la companya del companya del companya de la compa	
	(i) Outside the University	:.	w.e.f. 06.092012 to3	30.11.2015	
	(ii) (a) In the University (b) On present post	:	w.e.f. 01.12.2022 to w.e.f 01.12.2022	to cont	
8.	Publications:				
	(a) No. of Research papers published	:	25		
	(b) No. of articles published	1	5		
	(c) Books/Chapters in books	:	4		
	(d) Other publications, if any	:	: Laboratory & Practical manual, Souv technical bulletin of ISSAR, ASCAD & training manuals and CD		
9.	Details of courses taught:		& training mandars and CD		
Sl.No	o. No. & Title	of the cour	rse	Credit hrs.	
14	<u>u</u>	.G. Level:			
i.	VMD 411-Veterinary Clinical Medici	ne I		2+1	
ii.	VMD 421-Veterinary Clinical Medici	ne II		2	
iii.	VMD 412-Veterinary Preventive Med	licine 1		2	
iv.	VMD 400 Veterinary Medicine			4+1	
	P	G. Level:			
i.	VMD 613-Canine and Feline Medicin	e		2	
ii.	VCM 608-Clinical disease of animal of regional importance			1	
iii.	VCM 602-Ruminant clinical medicine		2		
iv.	VCM 605-Swine clinical medicine		1		
10.	No. of Master's students guided (in ca	research) :			
Nam	Similarine Incompanies of			Year of completion	

Preeti Joshi	43602	CLINICO-THERAPEUTIC STUDIES ON CANINE MYCOTIC DERMATITIS	2019
Anjali Negi	45875	Assessment of antibacterial activity of Nyctanthes arbor-tristis leaves in clinic therapeutic managgment of salmonellosis in poultry	2021
Jyoti chanda kalita	57004	STUDIES ON CLINICO-THERAPEUTIC ASPECTS OF CARDITIC FORM OF CANINE PARVOVIRUS INFECTION	2022
Signature of staff n	nember	Signatu	ire of Head of the Deptt
Signature of Dean Concerned	College		Signature of Dean PGS DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

PERSONAL RECORD

1. Name : Dr Ujjwal Kumar De
2. Designation : Senior Scientist
3. Date of Birth : 13.01.1979
4. Department : Veterinary Medicine

5. Educational Qualification : MVSc, PhD

6. Field of Specialization : Veterinary Medicine

7. Experience as Faculty member:

(i) Outside the University : Nil

(ii) (a) In the University : w.e.f. 2015 to present (b) On present post :w.e.f. 21/04/2018 to present

8. Publications:

(a) No. of Research papers published : 67
(b) No. of articles published : 12
(c) Books/Chapters in books :03
(d) Other publications, if any :05

9. Details of courses taught:

SI. No	No. & Title of the course	Credit hours
	Undergraduate level	
1	Veterinary Clinical Practice I	5
2	Veterinary Clinical Practice I	6
3	Jurisprudence, ethics, and animal welfare	5
4	Zoo and wild animal medicine	5
5	Viral and parasitic diseases	5
	Postgraduate level	
1	Clin Manage of Comm Infect Dis (VMD 661)	1
2	Clin Manage of Comm Infect Dis (VMD 662/663)	2
3	Clinical Hematology (VMD 629)	1
4	Clinical Hematology(VMD 630)	1
5	Forensic Medicine (VMD 681)	1
6	Forensic Medicine (VMD 682)	1
7	Clinical Nerology (VMD 627)	1.
8	Clinical Nerology (VMD 627)	1
9	Adv Prev Cont Anim Dis (VMD 763)	1
10	Adv Prev Cont Anim Dis (VMD 764)	1
11	Animal Welfare & Ethics (VMD581)	1
12	Clinical Gastroenterology (VMD 621/622)	2
13	Production & Deficiency Diseases	1
14	Clinic I (VMD 614)	1
15	Clinic II (VMD 616)	1



10. STUDENTS GUIDED AT MASTER'S LEVEL

SI. No.	Name	ID. NO.	Thesis Title	Year of Completion
1	Dr. Jugal Garkhal	M-5525	Assessment of antioxidant potential of Coenzyme q10 in calf diarrhea with Special reference to E. coli	2016
2	Dr. Chethan G.E.	M-5466	Immunomodulatory potential of β- glucan as an adjunct therapy in piglet diarrhoea with special reference to rotavirus infection	2016
3	Dr. Chandra Kiran Gaykwad	M-5671	Strategic supplementation of antioxidants to Sows at periparturient period and its effect On neonatal mortality	2017
4	Dr. Akhilesh	M-5698	Antioxidant effect of resveratrol: its Potential in piglet diarrhoea due to Rotavirus infection	2019
5	Dr. Jitendra Singh Gandhar	M- 5937	Efficacy of probiotics as an adjunct therapy in neonatal calf diarrhoea associated with rotavirus infection	2020
6	Dr. Varun Kumar Sarkar	M-6096	Effects of oral lactoferrin and probiotic interventions in early life on gut heath and neonatal piglet mortality	2021

DEAN, P.G.S.

igjord lune de

Signature of Staff/faculty [Ujjwal Kumar De] Senior Scientist,

Referral veterinary Polyclinic & Teaching Veterinary Clinical Complex

JCAR-IVRI, Izatnagar 243122 (UP)

Department of Veterinary Medicine College of Veterinary & Animal Sciences G. B. Pant University of Agri. & Tech. PANTNAGAR-263145. U. S. Nagar

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1. Name Dr Pradeep Sharma 2. Designation Pr Scientist (Biotechnology) 3. Date of birth 02/02/1974 4. Department Crop Improvement 5. **Educational Qualification** PhD 6. Field of Specialization Molecular Biology 7. Experience as Faculty member: 14 (i) Outside the University : w.e.f. to (ii) (a) In the University w.e.f. to (b) On present post w.e.f. to 8. Publications: (a) No. of Research papers published (b) No. of articles published (c) Books/Chapters in books (d) Other publications, if any 9. Details of courses taught: SLNo. No. & Title of the course Credit hrs. U.G. Level: ii. iii. iv. P.G. Level: ii. iii. iv. 10. No. of Master's students guided (in case of Ph.D. research) Name ID.NO. Thesis title Year of completion 1. 2. 3. Signature of staff member Signature of Head of the Deptt. Signature of Dean College Concerned Signature of Dean PGS

APPLICATION FOR ACCREDITATION OF FACULTY MEMBERS FOR Ph.D. RESEARCH

(03 copies are required)

1. PERSONAL RECORD

i. Name : Charu Lata

ii. Designation : Scientist

iii. Date of Birth : 21-05-1989

iv. Department : Biotechnology

v. College : ICAR-IIWBR, RS- Shimla

vi. Date of joining (as faculty w.e.f. to

member) : i. Outside University :

ii. (a) in the University :07/01/2020

(b) on present post

2. ACADEMIC RECORD

Board/University	Subject	Division	Marks (%)	Year
BSEH, Bhiwani	Hindi, English, Math, S.S., Science, Drawing	Second	59.0	2004 - 2005
BSEH, Bhiwani	Biology, Chemistry, Physics, English, Hindi	First	66.6	2006 - 2007
KVADAV College for Women, Karnal (KUK)	Zoology, Chemistry, Biotechnology	First	68	2007 - 2011
KVADAV College for Women, Karnal (KUK)	Biotechnology	First	69	2011- 2013
Kurukshetra University, Kurukshetra	Biotechnology	Awarded	Awarded	2015 - 2019
	BSEH, Bhiwani BSEH, Bhiwani KVADAV College for Women, Karnal (KUK) KVADAV College for Women, Karnal (KUK) Kurukshetra University,	BSEH, Bhiwani BSEH, Bhiwani BSEH, Bhiwani BSEH, Bhiwani KVADAV College for Women, Karnal (KUK) KVADAV College for Women, Karnal (KUK) Kurukshetra University, Biotechnology Biotechnology Biotechnology	BSEH, Bhiwani BSEH, Bhiwani BSEH, Bhiwani BSEH, Bhiwani Biology, Chemistry, Physics, English, Hindi KVADAV College for Women, Karnal (KUK) KVADAV College for Women, Karnal (KUK) Kurukshetra University, Riotechnology Biotechnology First Awarded	BSEH, Bhiwani BSEH, Bhiwani BSEH, Bhiwani Biology, Chemistry, Physics, English, Hindi KVADAV College for Women, Karnal (KUK) KVADAV College for Women, Karnal (KUK) KUADAV College for Women, Karnal (KUK) Biotechnology Biotechnology First 68 Kurukshetra University, Biotechnology Awarded

3. EMPLOYMENT RECORD

Designation	Institute	P	eriod
		From	To
Scientist	ICAR-IIWBR, RS - Shimla	2020	Till Date

4. FIELD OF SPECIALIZATION-Biotechnology

5. PARTICIPATION IN REFRESHER COURSES/TRAINING

S.No.	Name of training programme attended	Duration	Organising autority	
1	Management development programme global issues - First Session	14 -20 October 2020	HIPA	
2	Creation of epiphytotics for disease and insect pests, uniform data recording and reporting in wheat and barley crop protection trials	28-30 Jnuary, 2021	ICAR-IIWBR	
3	Capacity Building to Improve Efficiency of AICRP on Wheat and Barley	03-09 March, 2021	ICAR-IIWBR	
4	Translating Physiological Tools to Augment Crop Breeding	17-19th March 2021	ICAR-IIWBR	
5	Orientation Training on Methods and Techniques for Crop Improvement under AICRP Wheat & Barley			
6	Eighteen weeks virtual "Basic Wheat Training Program-2022" organized by CIMMYT, Mexico	24 January to 31st May 2022	CIMMYT, Mexico	

6. STUDENTS GUIDED AT MASTER'S LEVEL- NA

SI. No.	Name	ID. NO.	Thesis Title	Year of completion
1.				
2.	1,500			
3.				

7. EXPERIENCE

- A. TEACHING -NA
- i. Courses Taught

a. Under Graduate Level:

Sl.	Course No.	Title of Course	Credit Hours
No.	OLAN CONTROL OF CONTRO		

b. Post Graduate Level:

		and the first land to the firs	
Sl.	Course No.	Title of Course	Credit Hours
No.	CANADA MACADONA		

B. INFORMATION ON RESEARCH PROJECTS

i. Projects handled other than coordinated Projects- NA

Name of project(s)	Name Leader	of	Project	Duration of the Project	Total Outlay	Funding Agency
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Projects in hand

Name of project(s)	Name of Project Leader	Duration of the Project	Total Outlay	Funding Agency
Molecular studies on wheat and barley rust pathogens, gene pyramiding, and genetics of rust resistance (Co-PI)	Dr. OP Gangwar	2020-25	•	Institute funded
Mapping phenotypic diversity in wheat and barley rust pathogens, identifying resistance sources, and upkeep of culture collection (Co-PI)	Dr Pramod Prasad	2020-25		Institute funded
Biotechnological, bioinformatics and microbiological interventions for wheat improvement (Co-PI)	Dr Ratan Tiwari	2020-25		Institute funded

iii. Projects submitted- NA

Name of project(s)	Name Leader	of	Project	Duration of the Project	Total Outlay	Funding Agency
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MANAGEMENT.

- Kumar, K., Bhattacharjee, S., Vaikuntapu. PR., Sharma, CL., Jayaswal, D., Sharma, R., Sundaram, R.M. 2020. Climate Change Mitigation and Adaptation Through Biotechnological Interventions. In: Ch. Srinivasarao et al., (Eds). Climate Change and Indian Agriculture: Challenges and Adaptation Strategies, ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana, India. pp-1-22.
- Kumar, A., Mann, A., Lata, C., Kumar, N., & Sharma, P. C. (2019). Salinity-induced Physiological and Molecular Responses of Halophytes. In Research Developments in Saline Agriculture (pp. 331-356). Springer, Singapore.
- Bhardwaj SC. Gangwar OP, Prasad P. Kumar S, Lata C and Adhikari S. 2021. Future research and upcoming technologies for the management of wheat rusts. In: Technology strides in plant health management (Eds. NK Bharat and HR Gautam and SK Gupta). pp. 19-33. Neoti Book Agency Pvt Ltd, India
- Neeraj Kulshreshtha, Arvind Kumar, Ashwani Kumar, and Charu Lata. 2021"Genetic Interventions to Improve Salt and Microelement Toxicity Tolerance in Wheat"
- कृषि में विभिन्न जैव प्रौद्योगिकीय युक्तियों का अनुप्रयोगः एक समीक्षा , कुलदीप कुमार, सौगत भट्टाचार्य, पापा राव वैकुंठपु, चारुलता शर्मा, दीपांशु जायसवाल, रजनीश शर्मा एवं रामन मीनाक्षी सुंदर
- c. Other publications, if any

C AWARDS/HONOURS-

- Young Scientist Award by Society for Scientific Development in Agriculture and Technology MEERUT (U.P.) INDIA, in IVth International Conference on ICAAAS-2022 held during 12- 14 June 2022 at Himachal Pradesh University, Summer Hill, Shimla, H.P., India
- Best Oral Presentation Award in Technical Session 1st of the IVth International Conference on ICAAAS-2022 held during 12- 14 June 2022 at Himachal Pradesh University, Summer Hill, Shimla, H.P., India
- 8. MEMBERSHIP OF PROFESSIONAL SOCIETIES-
 - 1. Society for Advancement of Wheat and Barley Research
 - 2. Society of Soil Salinity and Water Quality

9. SIGNATURE OF APPLICANT

CHARU LATA

10. SPECIFIC RECOMMENDATIONS OF HEAD OF DEPARTMENT OF LONG

11. SPECIFIC RECOMMENDATIONS OF DEAN OF THE COLLEGE

dead MBGB

Re connected & formers

Recommended & forwarded

Dean, CBSH

(03 copies are required to

on one side)

Name

2. Designation

3. Date of birth

4. Department

Educational Qualification

6. Field of Specialization

7. Experience as Faculty member:

(i) Outside the University

(ii) (a) In the University

(b) On present post

8. Publications:

(a) No. of Research papers published

(b) No. of articles published

(c) Books/Chapters in books

(d) Other publications, if any

on one side

:nrutha HM

Scientist (Plant Physiology)

-1979

nprovement

rop Physiology

ysiology, Molecular biology, engineering, Genome editing.



to

2nd May 2011 to till date

9. Details of courses taught:

b. Post Graduate Level:

SI. No.	Course No.	
1	PP501	Princip
2	PP503	Physiological and
3	PP507	Morphogenesis, ti
4	GP608	Breedi
5	PP509	Physiological and na respiration:
6	PP603	Molecular approaches
10.		No. of master's stu.
SL No.	Name	ID. NO.
	Ph.D	
1.	Rakesh Kumar	05-UT- 011
2.	Vandita Mittal	02-UC- 121
3.		

-se	Credit Hours
iysiology	4+0
sponses of wheat to	3+1
and transformation	2+1
ier crops	2+1
ects of photosynthesis, assimilation	3+1
ing Physiological traits	2+1

ase of Ph.D. research)

	Year of completion
ransformation of abiotic	2017
dies on drought tolerance cum aestivum L.)	2016
lidation AhBTF3, AhNF-	2023

	. 142	sauzi!
	M.Sc	-
1	Shalini Mishra	
	B.Tech	Bu i
1	Rashi Sharma	
		1:

YA2. EcSAP-ZF genes in wheat to improve abiotic stress tolerance	
Agrabacterium-mediated transformation in wheat	2020
analysis of photosynthetic genes in Indian wheat genotypes	2018

H.M

Signature of staff member

Signature of Dean College Concerned

Signature of Head of the Dept.
HEAD
PLANT PHYSIOLOGY, CBSH

Signature of Dean PGS

DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1.	Name		:	Sneha Adhikari -		
2.	Designation		:	Scientist		
3.	Date of birth		:	24.06.1992		20
4.	Department		:	Genetics and Plant I	Breeding	
5.	Educational Qualif	Educational Qualification		Ph.D.	Ph.D.	
6.	Field of Specializa	tion	:	Genetics and Plant I	Breeding	98 537 63
7.	Experience as a Fa	Experience as a Faculty member:		-		
	(i) Outside the Uni	versity	:	w.e.f. to		
	(ii) (a) In the University (b) On present post		:	w.e.f. to w.e.f. to J	an 2020- Ti	ll Date
8.	Publications:	***************************************	-			
	(a) No. of Research	papers published	1:	33		
	(b) No. of articles p	published	:	12		
	(c) Books/Chapters	in books	. :	5		
	(d) Other publication	ons, if any	:			
9.	Details of courses t	aught:	ht: -			
SLN				se		Credit hrs.
	-	<u>U.G.</u>	Level:			
i. ii.					-	
		P.G.	Level:			
i.					-	
ii.						
10.	No. of Master's stu	dents guided (in case o	f Ph.D.	research)	: 4	
Nam	e ID.NO.	Thesis title				Year of completion
0:						10
oigna	ature of staff member	ح. دند	ادی ean	72	Signatu	re of Head of the Depri
00000000	ature of Dean College	Cellege o	f Agric	culture		Signature of Dean PGS
Resea	arch papers					DEAN, P.

Prasad P, Thakur RK, Savadi S, Bhardwaj SC, Gangwar OP, Lata C, Adhikari S and Kumar S (2022) Genetic Diversity and Population Structure Reveal Cryptic Genetic Variation and Long Distance Migration of Puccinia graminis f. sp. tritici in the Indian Subcontinent. Front. Microbiol. 13:842106. NAAS rating 11.64.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1.	Name			1:	Anuj Kumar			
	Designati	ion		1	Scientist Sr. Scale		-	
3.	Date of b	200		+	19.06.1987			
4.	The second second	Department : Quality & Basic Sciences		es				
5.	Educational Qualification			+	PhD			
6.	Field of Specialization			+		Food Technology		
7.	Experience as a Faculty member:			+				
		le the University	emoci.	+	w.e.f. to			
_		the University		+	w.e.f. to			
		n present post			w.e.f. to			
8.	Publication							
	1/2/2010-1910-1944	Research papers		:	18	- 1	3.	
	(b) No. of	f articles publishe	ed	:	7	4117		
	(c) Books	/Chapters in boo	ks	:	7			
	(d) Other	publications, if a	iny	:	6			
9.	Details of	f courses taught:						
Sl.No.		1	No. & Title of the		se		Credit hrs.	
			U.G. Le	vel:				
i. ii.	_		-	_				
			P.G. Le	vel:			VI	
			-					
ii.		300	-					
10.	No. of Ma	aster's students g	uided (in case of	Ph.D.	research)	: 4		
Name		ID.NO.	Thesis title				Year of completion	
Bitty B	PODET OF	150011014013	Effect of sodium r supplemented sen	netabi	sulphite on the properties of t biscuits	f seaweed-	2017	
Apama	ı VS	160011009848		ffect of time and temperature abuse on the histamine content f thermal processed yellowfin tuna (Thunnus albacares)			2018	
Roniya	Peter	170011019209		idation of standard method iso 19343 for histamine in tuna mackerel using hplc		2019		
Sreelak	oshmi NR	180011014184		c-bas	ed method for the estimation	n of	2020	
Signat	ure of staff	-			Test	_ueB	of Head of the Deptt	
Nice-	ture of Dea	n Conege	56		DEAN I	CGS FS	ignature of Dean PG	
Signat	rned							

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION

(03 copies are required on one page, on one side)

Sunil Kumar

Designation : Principal Scientist

Date of birth : 16/06/1978

4. Department : Quality & Basic Sciences

5. **Educational Qualification** : Ph.D.

6. Field of Specialization : | Biochemistry (Plant Sciences)

Experience as Faculty member:

(i) Outside the University w.c.f. to

(ii) (a) In the University (MPUAT & HAU) (b) On present post (ICAR) 02/07/2005 to 22/02/2011 23/02/2011 to Till date w.e.f. w.e.f.

8. Publications:

> (a) No. of Research papers published 33 (b) No. of articles published 23

(c) Books/Chapters in books Book (01); Chapter (09)

(d) Other publications, if any Manual/training compendium: 04 Bulletin: 03

Proceeding paper: 05 Souvenir article: 01

Details of courses taught:

S. No	0.	No. & Title o			Credit hrs.	
	And the second		U.G. Level:	700		
			P.G. Level:			
	At MPUAT, Udaipu			1 1		
	Plant Biotechnology				3+0	
i.	Molecular Biology (N				2+1	
ii.	Techniques in Moleci	ular Biology (N	ABB-621)	_	0+3	
V.	Introduction to Indust	rial Biotechno	logy (MBB-633)	_	3+0	
٧.	Food Chemistry & M	icrobiology (P)	FE-614)	_	2+1	
	At ICAR-IIWBR, K	arnal		-		
ń.	Advanced Biochemis	try (Biochem-6	01)		3+0	
ii	IPR and its Management in Agriculture (PGS-503)			-	1+0	
0. N	o. of Master's students	guided (in cas	e of Ph.D. research)	1:	1.0	
Name		ID.NO.	Thesis title		Year of completion	
. Chi MPU	hagan Lal Dama JAT, Udaipur)		Effect of temperature on sisozymes as molecular ma	shelf life of mus	throom using 2008	
	ture of staff member	1		Andelin	Signature of Head of the Depti Signature of Dean PGS	
ignat	ture of Dean College C			- 5100	Signature of Dean PG	
	D	ean, CBS	SH	HEAD, DID	Signman of Deal Pos	

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

1. Name : Dr. Om Prakash Gupta

Designation : Senior Scientist
 Date of birth : 17 Aug, 1987

4. Department : Quality and Basic Sciences

Educational Qualification : Ph.D (Biochemistry)

6. Field of Specialization : Plant Biochemistry and Mol Biol &

Biotechnol

Experience as Faculty member:

(i) Outside the University : w.e.f. to
(ii) (a) In the University : w.e.f. to
(b) On present post w.e.f. to

8. Publications:

(a) No. of Research papers published : 28
(b) No. of articles published : 49
(c) Books/Chapters in books : 33

Details of courses taught:

(d) Other publications, if any

SLNe	No. & Title of the course	Credit hrs.
	U.G. Level:	
	P.G. Level:	
i.	Fundamentals of Molecular Biology, MBB 502	3+0
ii. iii.	Current Topics in Biochemistry (Biochem. 603)	3+0
iii.	Technical Writing and Communication Skills, PGS 502	0+1

10. No. of Master's students guided (in case of Ph.D. research)

Name	ID.NO.	Thesis title	Year of completion
1. Tilahun Rabuma	170090980013	Deciphering transcriptional and post-transcriptional regulatory mechanism of capsicum annuum 1phytophthora capsici pathosystem	2022

Signature of staff member

Signature of Dean Concerned Dean, CBSH

Signature of Dean PGS

HEAD, BIO

DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

Name : Dr.V.Vijaya

Lakshmi

2. Designation : 'Professor &

Univ.Head

RMCS

3. Date of birth : 05-06-1966

4. Department :
5. Educational Qualification :

5. Educational Qualification : Ph.D.

6. Field of Specialization : RMCS

Experience as Faculty member:

1.

8.

(i) Outside the University : 22.10.93 to 30.5.1999

(ii) (a) In the University : w.e.f. 28.7.1999 to 31.7.2026

(b) On present post

1.6.2020 as Univ Head; 28.7.2014 as

Publications: Professor

(a) No. of Research papers published : 69
(b) No. of articles published : 14

(c) Books/Chapters in books : Books-5, Book Chapters - 12

(d) Other publications, if any : 7

Details of courses taught:

Sl.No	No. & Title of the course	Credit hrs.
	<u>U.G. Level</u> :	
1	Technical drawings	3(1+2)
2	Fittings, fixtures and services	2(1+1)
3	Furniture and furnishings	3(2+1)
4	Computer aided designing	4(1+3)
5	Housing and space management	3(2+1)
6	Professional Practice	4(1+3)
7	Fundamentals of art and design	3(2+1)
8	Entrepreneurship development	4(2+2)
9	Management of family resources	3(2+1)
10	Household equipment	3(1+2)
11	Money Management	Taught in M.S.University of Baroda. Data is not available regarding credits and course No.

12	Introduction to Home Management	
13	Household Equipment (non-electrical)	
14	Elements & Principles of design	
15	Colour in home	570,030
16	Time & Energy Management	
17	Introduction to Ecology	
18	Building Materials	
19	Lighting in the home	
20	Household equipment (electrical)	
21	Consumer Education	
22	Appropriate Technology and energy management	
23	Traditional and contemporary interiors	2(2+0)
24	Basics in building construction	2(1+1)
25	Environmental studies	3(2+1)
26	Materials and treatments for space design	4(2+2)
27	Functional Interiors for special needs	3(1+2)
28	Experiential learning programme	4(0+4)
29	Rural Home science work experience programme	10(0+10)
30	Family economics and consumer education	3(2+1)
31	Commercial interior space design	4(1+3)
32	Internship	10(0+10)
33	Fundamentals of Flower arrangement	2(1+1)
34	Landscape Gardening	4(2+2)

v	P.G. Level:	
1	Extension	Credit Hours
2	Fuel Technology	Taught in M.S.University of Baroda, so data is not available on credits and course numbers.
3	Performance testing of Household equipment	
4	Approaches to resource management	
5	Advanced housing	3(3+0)
6	Advanced interior space management	3(2+1)
7	Consumer issues and challenges	3(2+1)
8	Consumer ergonomics	3(2+1)
9	Color and lighting in interiors	3(1+2)
10	History of interiors	3(2+1)
11	Product design, testing & evaluation	3(2+1)
12	Seminar	3(1+2)
13	Special project	1(1+0)
14	Laboratory techniques	1(0+1)
15	Research Methodology in Home science	1(0+1)
16	Advances in resource management (Ph.D.course)	3(2+1)
17	Environmental issues and challenges (Ph.D.course)	3(3+0)
18	Occupational Biomechanics	3(2+1)
19	Managerial dimensions for special groups	3(1+2)
20	Consumer product design	3(1+2)
21	Research project management	3(1+2)
22	Lighting environment in architectural design	3(2+1)

No. of Master's students guided (in case of Ph.D. research) Year of Thesis title ID.NO. Name completion Preparation of briquettes using 2011 HHM/2009/19 Harshita Jain biomass combination and testing its efficacy D.Krishna Priya 2013 Ergonomic evaluation of work HHM/2011-09 and workstation design of sugarcane juice vendors G. Venkata Sushma HHM/2012-10 Genderwise analysis of access to 2015 and control over resources and assets in rural households of Andhra Pradesh (Dry areas) Ch.Bhavya Padmini Consumer satisfaction with solar 2016 HHM/2014-11

10.

heaters

Geeta Munje	IIHM/2015-12	Impact of brand on purchasing pattern of women consumers with reference to cosmetics	2018
Swetha Kodali	HHD/2012-06	Occupational health and safety concern of workers engaged in manufacturing units of precast building products and coping strategies	2018
Moirangthem Roshita Devi	HHM/2017-07	Designing and testing the efficiency of a portable solar garden lamp	2019
Gayathri Devi M.	HHD/2016-06	Ergonomic interventions to improve work environment in Durrie weaving units	2019
Divyasree Mohapatra	HHM/2018-12	Perception of rural and urban consumers on e waste management	2020
Thodeti Manasa	HHM/2019-14	A study on buying behavior of rural and urban consumers towards branded food products	2021
Nomula Prathyusha	HHM/2019-13	Evaluative study on consumer acceptance and satisfaction regarding the millet biscuits among children in social welfare schools (TSWREIS)	2021

Signature of staff member

DRecculum

Signature of Dean College Concerned

DEAN OF COMMUNITY SCIENCE Professor Jayashankar Telangana State Agricultural University Rajendranagar, Hyderabad-500030.

Signature of Head of the Deptt.

BRIEF BIODATA FOR PhD ACCREDITATION AS CO CHAIRPERSON /Co ADVISOR AT COLLEGE OF FISHERIES, G.B PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR

1. Name:

Dr Suresh Chandra

2. Designation:

Principal Scientist(Fish Pathology)

3. Date of birth:

08 December, 1964

4. Department:

Indian Council of Agricultural Research

Directorate of Coldwater Research, Bhimtal

5. Educational Qualification: M.Sc., Ph.D.

6. Field of specialization: Fish Health and Freshwater Aquaculture

7. Experience as

(i) Technical Officer:

ICAR-CIFA - 21 years

(ii) Sr. Scientist:

ICAR-DCFR-06 years

(iii): On present post

as Principal Scientist: ICAR-DCFR -5 years

8. Publications:

a) No of research papers published: 46

b) No of articles published: 55

c) Books/ Chapters in books: 7d) Other publications if any: 35

9. No of Masters Students guided as Co Chairperson/ Co Advisor:

SN	Name of the student	Degree	Year of completion/ongoing
1.	Mr Ravindra	M.Sc. Biotechnology Dissertation K.U.Nainital	2015(Supervisor)
2.	Vandana Pandey	M.Sc. Biotechnology K.U.Nainital	2021(Supervisor)
3.	Ms.K.K.Kavya	Ph.D. K.U. Nainital	2018- cont (Supervisor)
4.	Ms. Bhawana Gehalot	Ph.D. Delhi University	2019-cont Co- Supervisor

action may be forwarded for PGI PhD accreditation as chairperson / Cochairperson

Signature of Scientist

Signature of PME

ICAR-Drestorate of Coldwater Fisheries Peseus भीगताल, जिला - गैलीताल, (उत्तराखण्ड Bhimtal, Dist.- Nainital (Uttarakhand)

Signature of competent authority of DCF

Recumulated tomorated for consideration as Co chair person 16 Advisor for ph.D. research. Signature of co

(Avdhesh Kumar)

Head
Department of Aquaculture
College of Fisheries

Scring Dead Ecilege of Fisher DEAN, P.G.S.

BRIEF BIO-DATA FOR MASTER'S/PH.D. ACCREDITATION (03 copies are required on one page, on one side)

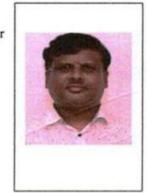
1. Name B.P. Mallikarjuna Swamy 2. Designation Senior scientist I/ Rice Breeder (Biofortification) 3. Date of birth 20/07/1977 4. Rice Breeding Innovation, Department International Rice Research Institute, Philippines 5. **Educational Qualification** PhD in Genetics 6. Field of Specialization Genetics 7. Experience as Faculty member: (i) Outside the University 2013 to till date w.e.f. (ii) (a) In the University w.e.f. to (b) On present post w.e.f. to 8. Publications: (a) No. of Research papers published (b) No. of articles published 52

(c) Books/Chapters in books

(d) Other publications, if any

Details of courses taught:

9.



Sl.No.	No. & Title of the	course	Credit hrs.
-	U.G. Le	evel:	
i.			
ii.			
iii.			
iv.			
	P.G. Le	evel:	
i.			
ii.			
iii.			
iv.			
10. No. of Mas	ter's students guided (in case of l	Ph.D. research)	
Name	ID.NO.	Thesis title	Year of completion

4

1. Yan Paing Soe	Meta-analysis of quantitative trait loci associated with grain zinc content in rice	2019
2. Mark Ian Cabahit Calayugan	QTL mapping for yield, yield-related traits, grain zinc and iron concentration in two recombinant inbred populations of rice (Oryza Sativa L.)	2018
3. Zin Mar Swe	Correlation analysis and QTL mapping of agronomic traits, grain zinc and iron concentration using two RILs populations of rice (Oryza sativa L.)	2018
4. Bethel Grace P. Taban	Genetic Dissection of grain iron and zinc rice BAAP using GWAS	Ongoing

Signature of staff member

Signature of Dean College Concerned
Dean
College of Agriculture

APPLICATION FOR ACCREDITATION OF FACULTY MEMBERS FOR PH.D. RESEARCH



1. PERSONAL RECORD:

i. Full Name (in Block letters)

: DR. JONALI GOSWAMI

ii. Designation

: Scientist/Engineer 'SF'

iii. Department/Institute Address for communication : North Eastern Space Applications Centre

: Dept. of Space, Govt. of India, Ri-Bhoi dist,

Umiam, Meghalaya

iv. Date of birth

: 30.04.1975

v. Sex

: Female

2. ACADEMIC RECORD:

Name of the University	Degree Passed	Year of Passing	Subject taken with specialization	Class/ Division
G.B. Pant University of Agriculture and Technology	M.Sc (Agri)	2000	Agricultural Meteorology	1 st
Assam Agricultural University	Ph.D.	2018	Crop Physiology	

3. EMPLOYMENT RECORD

Employer	Designation of the post held	Date of joining	Date of leaving
Director, NESAC, Umiam	JRF	9.01.2002	30.06.2003
Director, NESAC, Umiam	Scientist	01.07.2003	Till date

4. Awards (Not required for in-house personnel):

Year	Award	Agency	Purpose	Nature
2018	National Award for e-Governance 2017-18 (Silver)	Department of Administrative Reforms & Public Grievances	GeoPortal on North Eastern District Resources Plan to support effective governance applications	

5. FIELD OF SPECIALIZATION

20 years of working experiences in the projects related to remote sensing and GIS applications in the field of agriculture, disaster management, sericulture and epidemiology etc. Expertise developed in hyperspectral and Unmanned Aerial Vehicle (UAV) data analysis and their applications in different fields of research and applications.

6. MEMBERSHIPS/FELLOWSHIP:

- Life Member; Indian Society of Remote Sensing (ISRS)
- ii) Life Member; Indian Society of Geomatics (ISG)
- iii) Life member; Indian Society for Plant Physiology (ISPP)
- iv) Life member; Indian Meteorological Society (IMS)
- v) Life member; Association of Agrometeorologists.

7. PUBLICATIONS: (LIST ENCLOSED)

- No. of Research papers published: 42
- ii) No. of articles published: 14
- iii) Books/Chapters in books: 6

SIGNATURE OF APPLICANT

(Dr. Jonali Goswami)

Agenda Item: I/2023:04: Revision in degree nomenclature of Master's and Ph.D. Programmes as per BSMA (ICAR)

The BSMA committee of ICAR, New Delhi has recommended revision in nomenclature of various P.G. & Ph.D. degrees in order to have uniform nomenclature across SAUs in the country. To avoid problem related to specification of the degree for higher studies/fellowship/scholarship etc. as well as eligibility for employment in future for the P.G. & Ph.D. students of our University, it is proposed to adopt the nomenclature as recommended by BMSA committee of ICAR, New Delhi. The status of existing and proposed degree nomenclature as per BSMA recommendations is as follows:

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature
Agri-Business		
MBA Agribusiness Management	MBA Agri-Business Management	
Ph.D. Management	Ph.D. Agri-Business Management	
Agriculture		
M.Sc. Ag. (Agrometeorology)	M.Sc. (Agri.) Agricultural Meteorology	M.Sc. (Agri.) Agricultural Meteorology
Ph.D. Agrometeorology	Ph.D. Agricultural Meteorology	
M.Sc. Ag. (Agronomy)	M.Sc. (Agri.) Agronomy	M.Sc. (Agri.) Agronomy
Ph.D. Agronomy	Ph.D. in Agronomy	
*M.Sc. Ag. (Soil Science and Agricultural Chemistry)	M.Sc. (Agri.) Soil Science	M.Sc. (Agri.) Soil Science
*Ph.D. (Soil Science and Agricultural Chemistry)	Ph.D. Soil Science	
M.Sc. Ag. (Agricultural Economics)	M.Sc. (Agri.) Agricultural Economics	M.Sc. (Agri.) Agricultural Economics
Ph.D. Agricultural Economics	Ph.D. Agricultural Economics	
M.Sc. (Agricultural Extension and Communication)	M.Sc. (Agri.) Agricultural Extension Education	M.Sc. (Agri.) Agricultural Extension Education
Ph.D. Agricultural Extension and Communication	Ph.D. Agricultural Extension Education	
M.Sc. Ag. (Genetics and Plant Breeding)	M.Sc. (Agri.) Genetics and Plant Breeding	M.Sc. (Agri.) Genetics and Plant Breeding

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature
Ph.D. Genetics and Plant Breeding	Ph.D. Genetics and Plant Breeding	
M.Sc. Ag. Entomology	M.Sc. (Agri.) Entomology	M.Sc. (Agri.) Entomology
Ph.D. Entomology	Ph.D. Entomology	
M.Sc. Ag. (Plant Pathology)	M.Sc. (Agri.) Plant Pathology	M.Sc. (Agri.) Plant Pathology
Ph.D. Plant Pathology	Ph.D. Plant Pathology	
M.Sc. Ag. Horticulture (Fruit Science)	M.Sc. (Hort) Fruit Science	M.Sc. (Hort) Fruit Science
Ph.D. Horticulture (Fruit Science)	Ph.D. Fruit Science	Ph.D. Fruit Science
M.Sc. Ag. Horticulture (Vegetable Science)	M.Sc. (Hort) Vegetable Science	M.Sc. (Hort) Vegetable Science
Ph.D. Horticulture (Vegetable Science)	Ph.D. Vegetable Sconce	Ph.D. Vegetable Sconce
M.Sc. Ag. Horticulture (Floriculture & Landscaping)	M.Sc. (Hort) Floriculture & Landscaping	M.Sc. (Hort) Floriculture & Landscaping
Ph.D. Horticulture (Floriculture & Landscaping)	Ph.D. Floriculture & Landscaping	Ph.D. Floriculture & Landscaping
	M. Tech. Food Processing Technology	M. Tech. Food Processing Technology
	Ph.D. Food Processing Technology	Ph.D. Food Processing Technology
M.Sc. Food Technology	M. Tech. Food Process Engineering	M. Tech. Food Process Engineering
Ph.D. Food Technology	Ph.D. Food Process Engineering	Ph.D. Food Process Engineering
	M. Tech. Food Safety and Quality	M. Tech. Food Safety and Quality
	Ph.D. Food Safety and Quality	Ph.D. Food Safety and Quality
Technology		
M. Tech. Agricultural Engineering (Farm Machinery & Power Engineering)	M. Tech. Farm Machinery and Power Engineering	M. Tech. Farm Machinery and Power Engineering
Ph.D. Farm Machinery and Power Engineering	Ph.D. Farm Machinery and Power Engineering	
M. Tech. Agricultural Engineering (Process & Food Engineering)	M. Tech. Processing and Food Engineering	M. Tech. Processing and Food Engineering

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature
Ph.D. Process and Food Engineering	Ph.D. Processing and Food Engineering	Ph.D. Processing and Food Engineering
M. Tech. Agricultural Engineering (Irrigation and Drainage Engineering)	M. Tech. Irrigation and Drainage Engineering	M. Tech. Irrigation and Drainage Engineering
Ph.D. Irrigation and Drainage Engineering	Ph.D. Irrigation and Drainage Engineering	
M. Tech. Agricultural Engineering (Soil and Water Conservation Engineering	M. Tech. Soil and Water Conservation Engineering	M. Tech. Soil and Water Conservation Engineering
Ph.D. Soil and Water Conservation Engineering	Ph.D. Soil and Water Conservation Engineering	
Physical Science		
M.Sc. Agricultural Biotechnology	M.Sc. (Agri.) Molecular Biology and Biotechnology	M.Sc. (Agri.) Molecular Biology and Biotechnology
Ph.D. Molecular Biology & Biotechnology	Ph.D. Molecular Biology and Biotechnology	
**M.Sc. Agril. Statistics / Statistics	M.Sc. (Agri.) Agricultural Statistics	M.Sc. (Agri.) Agricultural Statistics
Ph.D. Statistics/ Agricultural Statistics	Ph.D. Agricultural Statistics /Ph.D. Statistics	
M.Sc. (Ag.) Agricultural Chemicals	M.Sc. (Agri.) Agricultural Chemicals	M.Sc. (Agri.) Agricultural Chemicals
Ph.D. Agricultural Chemicals	Ph.D. Agricultural Chemicals	
**M.Sc. (Ag.)/M.Sc. Biochemistry	M.Sc. (Agri.) Biochemistry / M.Sc. Biochemistry	M.Sc. (Agri.) Biochemistry / M.Sc. Biochemistry
Ph.D. Biochemistry	Ph.D. Biochemistry	
**M.Sc./ M.Sc. (Ag.) Microbiology	M.Sc. (Agri.) Microbiology /M.Sc. Microbiology	M.Sc. (Agri.) Microbiology /M.Sc. Microbiology
Ph.D. Microbiology	Ph.D. Microbiology	
**M.Sc./M.Sc. (Ag.) Plant Physiology	M.Sc. (Agri.) Plant Physiology/M.Sc. Plant Physiology	M.Sc. (Agri.) Plant Physiology/M.Sc. Plant Physiology
Ph.D. Plant Physiology	Ph.D. Plant Physiology	

^{*}Approved in 392nd meeting of Academic Council.

** M.Sc. (Agri.) awarded to the students from graduation in Agriculture stream and M.Sc. awarded to students from purse science stream.

**Revision proposed as M.Sc. (Agri.) in place of M.Sc. (Ag.) and M.Sc. will remain unchanged.

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature
Community Science		
*M.Sc. Community Sci. (Textiles and Apparel Designing)	M.Sc. (Community Science) Apparel and Textile Science	M.Sc. (Community Science) Apparel and Textile Science
*Ph.D. Community Sci. (Textiles and Apparel Designing)	Ph.D. Apparel and Textile Science	Ph.D. Apparel and Textile Science
*M.Sc. Community Science (Food Science & Nutrition)	M.Sc. (Community Science) Food and Nutrition	M.Sc. (Community Science) Food and Nutrition
*Ph.D. Community Science (Food Science & Nutrition)	Ph.D. Food and Nutrition	Ph.D. Food and Nutrition
*M.Sc. Community Science (Human Development and Family Studies)	M.Sc. (Community Science) Human Development and Family Studies	M.Sc. (Community Science) Human Development and Family Studies
*M.Sc. Community Science (Family Resource Management)	M.Sc. (Community Science) Resource Management and Consumer Science	M.Sc. (Community Science) Resource Management and Consumer Science
*Ph.D. Community Science (Family Resource Management)	Ph.D. Resource Management and Consumer Science	Ph.D. Resource Management and Consumer Science
Fisheries Science		
M.F.Sc.(Aquaculture)	M.F.Sc. Aquaculture	M.F.Sc. Aquaculture
Ph.D. (Aquaculture)	Ph.D. Aquaculture	Ph.D. Aquaculture
#M.F.Sc.(Fisheries Resource Management)	M.F.Sc. Fisheries Resource Management	M.F.Sc. Fisheries Resource Management
#Ph.D. (Fisheries Resource Management)	Ph.D. Fisheries Resource Management	Ph.D. Fisheries Resource Management
M.F.Sc. (Aquatic Environment Management)	M.F.Sc. Aquatic Environmental Management	M.F.Sc. Aquatic Environmental Management
M.F.Sc. (Fish Processing Technology)	M.F.Sc. Fish Processing Technology	M.F.Sc. Fish Processing Technology

^{*}Approved in 392nd meeting of Academic Council. #Presently kept in abeyance.

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature		
Veterinary Science				
M.V.Sc. Veterinary Anatomy	M.V.Sc. Veterinary Anatomy			
Ph.D. Veterinary Anatomy	Ph.D. Veterinary Anatomy			
M.V.Sc. Veterinary Biochemistry	M.V.Sc. Veterinary Biochemistry			
Ph.D. Veterinary Biochemistry	Ph.D. Veterinary Biochemistry			
M.V.Sc. Veterinary & Animal Husbandry Extension	M.V.Sc. Veterinary Extension Education	M.V.Sc. Veterinary Extension Education		
M.V.Sc. Veterinary Physiology	M.V.Sc. Veterinary Physiology			
Ph.D. Veterinary Physiology	Ph.D. Veterinary Physiology			
M.V.Sc. Veterinary Gynaecology & Obstetrics	M.V.Sc. Animal Reproduction Gynaecology & Obstetrics	M.V.Sc. Animal Reproduction Gynaecology & Obstetrics		
Ph.D. Veterinary Gynaecology & Obstetrics	Ph.D. Animal Reproduction Gynaecology & Obstetrics	Ph.D. Animal Reproduction Gynaecology & Obstetrics		
M.V.Sc. Veterinary Surgery and Radiology	M.V.Sc. Veterinary Surgery and Radiology			
Ph.D. Veterinary Surgery and Radiology	Ph.D. Veterinary Surgery and Radiology			
M.V.Sc. Veterinary Medicine	M.V.Sc. Veterinary Medicine.			
Ph.D. Veterinary Medicine	Ph.D. Veterinary Medicine			
M.V.Sc. Veterinary Microbiology and Immunology	M.V.Sc. Veterinary Microbiology	M.V.Sc. Veterinary Microbiology		
Ph.D. Veterinary Microbiology and Immunology	Ph.D. Veterinary Microbiology	Ph.D. Veterinary Microbiology		
M.V.Sc. Veterinary Pathology	M.V.Sc. Veterinary Pathology			
Ph.D. Veterinary Pathology	Ph.D. Veterinary Pathology			
M.V.Sc. Veterinary Parasitology	M.Sc. Veterinary Parasitology			
Ph.D. Veterinary Parasitology	Ph.D. Veterinary Parasitology			
M.V.Sc. Veterinary Public Health & Epidemiology	M.V.Sc. Veterinary Public Health & Epidemiology			

Existing Degree Nomenclature	BSMA Degree Nomenclature	Revision Proposed in Degree Nomenclature		
Ph.D. Veterinary Public Health & Epidemiology	Ph.D. Veterinary Public Health & Epidemiology			
M.V.Sc. Veterinary Pharmacology & Toxicology	M.V.Sc. Veterinary Pharmacology & Toxicology			
Ph.D. Veterinary Pharmacology & Toxicology	Ph.D. Veterinary Pharmacology & Toxicology			
M.V.Sc. Animal Genetics and Breeding	M.V.Sc. Animal Genetics and Breeding			
Ph.D. Animal Genetics and Breeding	Ph.D. Animal Genetics and Breeding			
M.V.Sc. (Animal Nutrition)	M.V.Sc. Animal Nutrition			
Ph.D. Animal Nutrition	Ph.D. Animal Nutrition			
M.V.Sc. Livestock Production and Management	M.V.Sc. Livestock Production and Management			
Ph.D. Livestock Production and Management	Ph.D. Livestock Production and Management			
M.V.Sc. Livestock Products Technology	M.V.Sc. Livestock Products Technology			
Ph.D. Livestock Products Technology	Ph.D. Livestock Products Technology			
M.V.Sc. Poultry Science	M.V.Sc. Poultry Science			
Ph.D. Poultry Science	Ph.D. Poultry Science			
M.V.Sc. Animal Biotechnology	M.V.Sc. Veterinary Biotechnology	M.V.Sc. Veterinary Biotechnology		

The P.G. Faculty is requested to consider the above proposal for revision in degree nomenclature as per recommendations of BSMA committee of ICAR, New Delhi. The same is proposed to be implemented w.e.f. Academic Batch 2023.

Dean, PGS

Agenda Item No. I/2023:05: Admission Policy for Academic Year 2023-24 for PG and Ph.D. programmes of the university A. Ph.D.Programmes

S. No.	Major	Existing Sea	•	Se		Minimum Eligibility Qualifications	
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed
AGR	RICULTURAL MAJORS	;					
1.	Agricultural Economics	03	01	No change	No change	M.Sc. Ag. Agril. Economics/Rural Banking & Agril. Eco. /M.Sc. (Agribusiness Economics) or M.Sc. Dairy Economics/ Livestock Economics/ Forest Economics/ Veterinary Economics/ Fisheries Economics/ Animal Husbandry Economics.	No change
*2.	Agronomy	05	Nil	No change	No change	M.Sc. Ag. Agronomy.	No change
3.	Agricultural Agrometeorology	03	01	No change	No change	M.Sc. Ag./M.Sc. in Agrometeorology/ Agricultural Physics.	No change
4.	Agricultural Extension Education	04	01	No change	No change	Masters' degree in the area of Development Communication/ Agricultural Extension/ Extension Education/Agricultural Extension&Communication/ Home Science Extension Education/ Dairy Extension /VeterinaryExtension/ Fisheries Extension.	No change
5.	Entomology	05	01	<mark>08</mark>	<mark>02</mark>	M.Sc. Ag. Entomology or M.Sc. Zoology with specialization in Entomology.	No change
6.	Food Processing Technology	00	00	03	01	-	Master's degree in Food Processing Technology/Food Safety and Quality/ Food Process Engineering/ Food Science and Technology/Food Science
7.	Genetics & Plant Breeding	06	02	No change	No change	M.Sc. Ag./M.Sc. in Genetics & Plant Breeding/ Plant Breeding/ Genetics/ Agril. Botany.	No change
8.	Fruit Science	04	01	No change	No change	M. Sc. Ag./M.Sc. in Horticulture/ Horticulture (Fruit Science) /Horticulture (Floriculture & Landscping) /M.Sc. Pomology	No change
*9.	Floriculture and Landscaping	03	01	No change	No change	M. Sc. Ag./ M.Sc. in Horticulture/ Horticulture (Floriculture & Landscaping)/ Horticulture (Fruit Science)/ M.Sc. Floriculture/ Floriculture & Landscape Architecture.	No change

S. No.			Minimum Eligibility Qualif	ications			
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed
10.	Plant Pathology	04	Nil	<mark>0</mark> 8	No change	M.Sc.Ag. in Plant Pathology/Mycology & Plant Pathology/Plant Protection with specialization in Plant Pathology	No change
11.	Soil Science	04	01	No change	No change	M.Sc. Ag. in Soil Science/Agril. Chemistry/ Agril. Physics/ Soil Science and Agricultural Chemistry/Agricultural Physics (Soil Physics and Soil and Water Conservation).	No change
12.	Vegetable Science	04	01	No change	No change	M.Sc. Ag. in Horticulture (Vegetable Science)/Olericulture/Horticulture with specialization in Vegetable Science	No change
ENG	INEERING MAJORS						
1.	Electrical Engineering	03	01	No change	No change	Bachelor's degree in Electrical Engg./Electrical & Electronics Engineering from a recognized University/ Institute and Masters' degree in the related field of Electrical Engineering from arecognized University/ Institute.	No change
2.	Electronics & Communication Engineering	05	01	No change	No change	Bachelor's Degree in Electronics & No chan	
3.	Farm Machinery & Power Engineering	04	01	No change	No change	Master's Degree in Farm Machinery & Power Engineering/Agricultural Engineering/ Mechanical Engineering/ Renewable energy from a recognized University.	No change
4.	Civil Engineering	04	01	No change	No change	Bachelor's degree in Civil Engineering and Master's degree in Civil Engineering with one of the following specialization from recognized University/Institute- Structural Engg./Computer aided design in Structural Engg./ Earthquake	No change

S. No.	Major	_	sting No. of Proposed Seats Seat			Minimum Eligibility Qualifications		
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed	
						Engg./Hydraulic Engg./ Water Resources Engg./ Geotechnical Engg./ Soil Mechanics and Foundation Engg./ Transportation Engg./ Environmental Engg./ Hydrology/ Irrigation Water Management/ Hydropower Engg.		
5.	Irrigation & Drainage Engineering	04	01	No change	No change	Master's Degree in Agricultural Engg. with specialization in Irrigation & Drainage Engineering/ Soil & Water Conservation Engineering/ Soil & Water Engineering/Land and Water Resources Engineering/ Water Resources Engineering/ Masters' degree in Civil Engineering from a recognized University/Institute.	No change	
6.	Mechanical Engineering	08	02	No change	No change	Master's Degree in Mechanical Engineering with specialization in Thermal Engineering/Thermal Power Engg./Energy Engg./Automobile Engg./Production Engg./Manufacturing Engg. and Management/ Design and Production Engg./ Machine Design Engineering/ Machine Design and Analysis/ CAD, CAM and Robotics/ Computer Aided Design and Manufacturing/ Design/Product Design and Development/Materials Engg./ Material Science and Engg./ Mechatronics and Automation from a recognized University/Institute.	No change	
7.	Process & Food Engineering	04	01	No change	No change	Master's Degree in Agricultural Engineering/ Chemical Engg./ Agricultural Processing/ Agril. Processing and Structures/Agril. Structures and Process Engg./Food Process Engineering/ Post Harvest Engg./Food and Bioprocess Engg./Food Engineering / Process and Agril. Structures/ Process & Food Engg./ Biochemical Engg. / Dairy Engg./	Master's Degree in Agricultural Engineering/ Chemical Engg./ Agricultural Processing/ Agril. Processing and Structures/Agril. Structures and Process Engg./Food Process Engineering/ Post Harvest	

S. No.	Major	Existing No. of Seats		Proposed No. of Seats		Minimum Eligibility Qualifications		
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed	
						Food Engg. / Food Biotech. Engg. / Renewable Energy Engg. from a recognized University.	Engg./Food and Bioprocess Engg./Food Engineering / Process and Agril. Structures/ Process & Food Engg./ Biochemical Engg. / Dairy Engg./ Food Engg. / Food Biotech. Engg. / Renewable Energy Engg. / Processing & Food Engg. (as per BSMA recommendation) from a recognized University.	
8.	Production Engineering	03	01	No change	No change	Master's Degree in Production Engg./CAM/CAM & Robotics/CAD/ Mechanical Engg./ Manufacturing Engineering and Management/ IndustrialSystem Engineering/Industrial & Production Engineering from a recognized University.	No change	
9.	Soil & Water Conservation Engineering	04	01	No change	No change	Master's Degree in Agricultural Engineering with specialization in Soil & Water Conservation Engineering/ Soil & Water Engineering/ Irrigation & Drainage Engineering / Land and Water Resource Engineering or Masters' Degree in Civil Engineering/ Water Resources/Hydrology/ Water Science and Technology from a recognized University/Institute.	No change	
10.	Information Technology	02	Nil	No change	No change	ME/M. Tech. degree in Information Technology/Computer Engg./ Computer Science & Engg./ Computer Science/Information Communication Technology from a recognized University.	No change	

S. No.	Major	Existing Sea	•		ed No. of	f Minimum Eligibility Qualifications		fications
		UA Domicile	Other States	UA Domicile	Other States	Existing		Proposed
FISH	IERIES SCIENCE MAJO	RS						
1.	Aquaculture	03	01	No change	No change	M.F.Sc. Aquaculture/ Mariiculture/Inland Aquaculture/ Aquatic Environment Management.	M.F.Sc. Aquacul Manage	•
CON	MUNITY SCIENCE MA	JORS						
1.	Food and Nutrition	01	Nil	No change	No change	M.Sc. Home Science (Foods & Nutrition)/Food Science & Tech./ Nutrition & Dietetics/ Food Science & Nutrition.	Nutrition Nutrition Nutrition Nutrition Sports Nutrition Manage	Community Science (Food & n)/M.Sc. Home Science (Foods & n)/Food Science & Tech./n & Dietetics/ Food Science & n/ Foods & Nutrition/ M.Sc. Nutrition/ M.Sc. Public Health n/M.Sc. Institutional ment & Dietetics/M.Sc. Dietetics Service Management.
2.	Apparel and Textile Science	04	01	No change	No change	B.Sc. Home Science alongwith M.Sc. Home Science (Clothing & Textiles)/ Clothing & Textiles/ Textiles & Clothing/ Textile and Apparel Designing/Fabric and Apparel Science/ Textiles Sciences and Apparel Design/Apparel and Textiles Sciences/Textiles and Fashion Apparel/ Biotextiles/Textile and Fashion Technology,B.Sc. (Hons) Community Science alongwith M.Sc. Community Science (Apparel & Textile Science).	Commundation Commu	g/ Textiles and Apparel ng/Fabric and Apparel e/ Textile Science and Apparel Apparel and Textile es/Textile and Fashion / Biotextiles/Textile and Technology,B.Sc. (Hons) unity Science alongwith M.Sc. anity Science (Textiles and
3.	Resource Management and Consumer Science	04	01	No change	No change	M.Sc. Family Resource Management/ Resource Management & Consumer Science/Human Ecology in Consumer Science/Family and Community	M.Sc. F Resource Science	amily Resource Management/ce Management & Consumer

S. No.	Major	Existing Sea		-	ed No. of ats	Minimum Eligibility Qual	ifications
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed
						Resource Management and Interior Design	• •
SCIE	ENCE MAJORS						
1.	Agricultural Statistics/ Statistics	02	Nil	No change	01	M.Sc. Statistics/Agricultural Statistics/ M.Sc. Applied Statistics.	No change
2.	Agricultural Chemicals	03	01	No change	No change	M.Sc. Ag. / M.Sc. in Agricultural Chemicals.	No change
3.	Biochemistry	01	-	No change	No change	M.Sc. Ag./M.Sc. in Biochemistry/ Microbiology/ Molecular Biology & Biotech./Biophysics/ Biotechnology.	No change
4.	Botany	02	Nil	No change	No change	Master degree in Botany/Plant Sciences/ Plant Physiology/ Environmental Sciences.	No change
5.	Chemistry	04	01	No change	No change	M.Sc. Chemistry from a recognized University.	No change
6.	Environmental Science	02	Nil	No change	No change	M.Sc. Ag./ M.Sc. in Environmental Science/ Environmental Biology/ Agroforestry/ Agricultural Physics/ Agriculture with specialization in Environmental Science.	Environmental Science/
7.	Mathematics	03	01	No change	No change	M.Sc. in Mathematics /Applied Mathematics	No change
8.	Microbiology	02	Nil	No change	No change	M.Sc. Ag. in Microbiology/M.Sc. Microbiology/ M.Sc. Environmental Microbiology/Biochemistry / Food Technology/ Biotechnology/ Environmental Science /	M.Sc. (Ag.) Microbiology/M.Sc. Microbiology/ Environmental Microbiology/Biochemistry /

S. No.	Major	Existing Sea		o. of Proposed No. of Seats		Minimum Eligibility Qualifications		
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed	
						Foods & Nutrition/ Molecular Biology and Biotechnology.	Food Technology/ Biotechnology/ Environmental Science / Foods & Nutrition/ Molecular Biology and Biotechnology/ Botany.	
9.	Molecular Biology & Biotechnology	04	01	01	-	M.Sc. Ag. / M.Sc. in Biochemistry / Microbiology / Biotechnology /Molecular Biology & Biotechnology/ Genetic Engineering/M. Tech. Biotechnology /M.Sc. Ag. Genetics & Plant Breeding.	No change	
10.	Physics	03	01	No change	No change	Master's Degree in Physics/Applied Physics/Astro Physics/Bio-Physics/ Material Science / Electronics/ Computer Science.	No change	
11.	Plant Physiology	03	01	No change	No change	M.Sc./M.Sc. Ag. in Plant Physiology /Crop Physiology/ Agronomy/ Horticulture/ Botany/ Bio-Sciences/ Plant Sciences/ Environmental Science.	No change	
VET	ERINARY SCIENCE MA	AJORS						
1.	Veterinary Public Health & Epidemiology	03	01	No change	No change	M.V.Sc. in Veterinary Public Health & Epidemiology.	M.V.Sc. in Veterinary Public Health &Epidemiology/ Veterinary Microbiology/ Veterinary Public Health/ Epidemiology.	
2.	Animal Reproduction Gynaecology & Obstetrics	03	01	No change	No change	M.V.Sc. Gynaecology & Obstetrics/ Animal Reproduction.	No change	
3.	Livestock Production &Management	04	01	No change	No change	M.V.Sc. in LPM.	No change	
4.	Veterinary Medicine	03	01	No change	No change	M.V.Sc. in Veterinary Medicine/ Veterinary Clinical No change		
5.	Veterinary Microbiology	03	01	No change	No change	M.V.Sc. in Veterinary Microbiology & Immunology/ Veterinary Microbiology/ VeterinaryBacteriology/Veterinary Virology/ Veterinary Immunology.	No change	

S. No.	Major	Existing No. of Seats			ed No. of ats	Minimum Eligibility Qualifications	
		UA Domicile	Other States	UA Domicile	Other States	Existing	Proposed
6.	Veterinary Pathology	03	01	No change	02	M.V.Sc. Pathology.	No change
7.	Veterinary Pharmacology & Toxicology	03	01	No change	No change	M.V.Sc. Vety. Pharmacology/Vety. Pharmacology & Toxicology.	No change
8.	Veterinary Physiology	03	01	No change	No change	M.V.Sc. Veterinary or Animal Physiology	No change
9.	Poultry Science	03	01	No change	No change	M.V.Sc. in Poultry Science/ Poultry Husbandry/LPM.	No change
10.	Vety. Surgery & Radiology	03	01	No change	No change	M.V.Sc. (Veterinary Surgery & Radiology).	
11.	Veterinary Biochemistry	02	Nil	No change	No change	M.V.Sc. in Veterinary Biochemistry.	No change
12.	Animal Genetics & Breeding	03	01	No change	No change	M.V.Sc. in Animal Genetics & Breeding.	No change
13.	Animal Nutrition	03	01	No change	No change	M.V.Sc. in Animal Nutrition.	No change
14.	Veterinary Anatomy	03	01	No change	No change	M.V.Sc. in Veterinary Anatomy.	No change
15.	Veterinary Parasitology	03	01	No change	No change	M.V.Sc. in Veterinary Parasitology	No change
16.	Livestock Products Technology	03	01	No change	No change	M.V.Sc. in Livestock Products Technology/Animal Products Technology.	No change
MAN	AGEMENT MAJOR						
**1.	Management	02	Nil	02	02	Masters' Degree or equivalent in Business Administration/ Management.	No change

^{*}Admission to **Ph.D. programmes in Agronomy and Plant Pathology** for Other State candidates shall be made through ICAR entrance examination only. Candidate need not apply for Pantnagar entrance examination for Other State seats in the mentioned disciplines of **Agronomy and Plant Pathology**.

**Self –Financing

#Students will have to read some remedial Courses.

The candidate possessing above qualifications and fulfilling the conditions laid down hereunder shall have to qualify the written test and secure a place in the merit list so as to be eligible for admission:

- (a) At Master's level, the candidate should have secured an OGPA not less than 6.500/10.000 or 4.000/5.000 or 1st Division in case of the Universities where these grading scales are not applicable. At Bachelor's level the candidate must possess an Overall Grade Point Average of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in case of the Institutions/Universities where these grading scales are not applicable.
- (b) Besides a candidate must also possess the eligibility qualifications prescribed for Masters programmes of the University in the relevant discipline.
- (c) A relaxation of 5% marks, or an equivalent relaxation of grade at Master's level only, will be allowed to those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled categories of candidates.

Note: The students having M.Sc. Statistics/M.Sc. Applied Statistics will be awarded Ph.D. with major in Statistics and those having M.Sc. Agricultural Statistics will be awarded Ph.D. with major in Agricultural Statistics.

B. Masters' Programmes

S. Major		No. o	f Seats	Minimum Eligibility Qualifications			
No.		Existing	Proposed	Existing	Proposed		
AGRIC	CULTURE MAJORS						
1.	Agricultural Economics	08	No change	B.Sc. or B.Sc. (Hons.) in Agriculture/ Fisheries/ Forestry/ Horticulture/ Home Sc./ Agril. Marketing / Agricultural Marketing and Cooperation/ Community Science.	No change		
2.	Agricultural Agrometeorology	03	No change	B.Sc. or B.Sc. (Hons.) in Agriculture / Forestry/ Horticulture or B.Sc. with Physics as one of the major subject.	No change		
3.	Agronomy	10	No change	B.Sc. Ag./ B.Sc. (Hons.) Ag.	No change		
4.	Agricultural Extension Education	08	No change	B.Sc. or B.Sc. (Hons.) in Agriculture/ Forestry/ Horticulture/ Home Science/ Fisheries/ Food Sc. & Technology/Dairy Sc./ Sericulture/ B.V.Sc. & A.H./B.V.Sc./ Community Science.	No change		
5.	Entomology	08	<mark>12</mark>	B.Sc. or B.Sc. (Hons.) in Agriculture/ Forestry/ Horticulture/Sericulture.	No change		
6.	Food Processing Technology	00	04	-	Bachelor's degree in Food Technology/Food Science and Technology/Dairy Technology		
7.	Genetics & Plant Breeding	12	No change	B.Sc. or B.Sc. (Hons.) in Agriculture/ Forestry/ Horticulture.	No change		
8.	Fruit Science	08	No change	B.Sc. or B.Sc. (Hons.) in Agriculture / Horticulture/Forestry.	No change		
*9.	Floriculture and Landscaping	04	No change	B.Sc. or B.Sc. (Hons.) in Agriculture/ Horticulture/Forestry.	No change		
10.	Plant Pathology	08	12	B.Sc. or B.Sc. (Hons.) in Agriculture /	No change		

S.	Major	No. o	of Seats	Minimum Eligibil	Minimum Eligibility Qualifications				
No.		Existing	Proposed	Existing	Proposed				
				Forestry/ Horticulture.					
11.	Soil Science	08	No change	B.Sc. or B.Sc. (Hons.) in Agriculture/ Horticulture/ Forestry.	No change				
12	Vegetable Science	06	No change	B.Sc. Agriculture/B.Sc. Agriculture (Hons.)/ B.Sc. Horticulture/ B.Sc. (Hons.)Horticulture	No change				
ENGI	NEERING MAJORS								
1.	Farm Machinery & Power Engg.	10	No change	Bachelor's Degree in Agricultural Engineering from a recognized University/Institute.	No change				
2.	Irrigation & Drainage Engineering	12	No change	Bachelor's Degree in Agricultural Engineering / Civil Engineering from a recognized University/ Institute.	No change				
3.	Process & Food Engineering	08	No change	Bachelor's Degree in Agricultural Engineering / Chemical Engg./B.Tech. Food Sc./B.Tech. Food Tech./B.Tech. Dairy Technology/B.Tech.FoodEngg.fromarecognize dUniversity/ Institute.	No change				
4.	Soil &Water Conservation Engineering.	10	No change	Bachelor's Degree in Agricultural Engineering /Civil Engineering from a recognized University /Institute.	No change				
5.#	Computer Engineering	10	No change	B.Tech./B.E. degree in Computer Engineering/Computer Science & Engineering/Computer Science/Information Technology/ Information Communication Technology from a recognized University/Institute.	No change				
6.#	Design & Production Engineering	10	No change	Bachelor's Degree in Mechanical Engg./Mechanical & Automation / Production Engg./ Industrial & Production Engg. from a recognized University/Institute.	Bachelor's Degree in Mechanical Engg./Mechanical & Automation / Production Engg./ Industrial & Production Engg. Or in related field from a recognized University/Institute.				
7.#	Electrical Energy System	12	No change	Bachelor's Degree in Electrical Engineering/ Electrical and Electronics Engineering from a recognized University/Institute.	No change				
8#	Electronics & Communication Engineering	14	No change	Bachelor's Degree in Electronics & Communication Engineering/ Electronics	No change				

S.	Major	No. of Seats		Minimum Eligibility Qualifications		
No.	-	Existing	Proposed	Existing	Proposed	
				Engineering/Communication Engineering/Tele Communication Engineering from a recognized University/ Institute.		
9.#	Hydraulic Engineering	04	No change	Bachelor's Degree in Civil Engg. from a recognized University/ Institute.	No change	
10.#	Information Technology	06	No change	B.E./B.Tech. degree in Information Technology/Computer Engineering/ Computer Science & Engineering/Computer Science/ Information Communication Technology from a recognized University/ Institute.	No change	
11.#	Manufacturing Engineering and Management	06	No change	B.Tech./B.E./B.Sc. (Engg.) Degree in Mechanical Engg./ Production Engg./ Industrial Engg./ Mechanical/Production and Tool Engg./ Production Technology and Manufacturing Engg./ Mechatronics/ Manufacturing Process and Automation/ Production and Industrial Engg./ Industrial and Production Engg./ Manufacturing Technology/ Mechanical and Production Engg./ Automation Engg. from a recognized University/Institute.	B.Tech./B.E./B.Sc. (Engg.) Degree in Mechanical Engg./ Production Engg./ Industrial Engg./ Mechanical/Production and Tool Engg./ Production Technology and Manufacturing Engg./ Mechatronics/ Manufacturing Process and Automation/ Production and Industrial Engg./ Industrial and Production Engg./ Manufacturing Technology/ Mechanical and Production Engg./ Automation Engg. or related field from a recognized University/Institute.	
12.#	Soil Mechanics & Foundation Engineering	04	No change	Bachelor's Degree in Civil Engineering from a recognized University/ Institute.	No change	
13.#	Structural Engineering	04	No change	Bachelor's Degree in Civil Engineering from a recognized University/Institute.	No change	
14.#	Thermal Engineering	10	No change	Bachelor's Degree in Mechanical Engineering/ Automobile Engineering from a recognized University/Institute.	Bachelor's Degree in Mechanical Engineering/ Automobile Engineering or related field from a recognized University/Institute.	
FISHE	FISHERIES SCIENCE MAJORS					
1.	Aquaculture	04	<mark>04+</mark> 01	Bachelor's Degree in Fisheries Science	Bachelor's Degree in Fisheries Science/ Aquaculture	
2.	Aquatic Environmental Management	04	02	Bachelor's Degree in Fisheries Science	No change	
3.	Fish Processing Technology	04	No change	Bachelor's Degree in Fisheries Science	Bachelor of Fisheries Science	

S.	S. Major		f Seats	Minimum Eligibility Qualifications		
No.		Existing	Proposed	Existing	Proposed	
COMM	COMMUNITY SCIENCE MAJORS					
1.	Apparel and Textile Science	06	No change	B.Sc. Home Science/ B.Sc. (Hons.) Community Science/ Home Economics/ Family & Community Sciences alongwith Intermediate Science.	No change	
2.	Resource Management and Consumer Science	04	No change	B.Sc. Home Science/Home Economics /Family & Community Science/ B.Sc. (Hons.) Community Science with Intermediate Science.	No change	
3.	Food & Nutrition	04	No change	B.Sc. Home Science with Intermediate Science /B.Sc. Food Tech./ B.Sc. (Hons.) Community Science/B.Sc. Home Economics.	B.Sc. Home Science with Intermediate Science /B.Sc. Food Tech./ B.Sc. (Hons.) Community Science/B.Sc. Home Economics/B.Sc.(Hons) Food Nutrition & Dietetics.	
4.	Human Development & Family Studies	00	02	DEFERRING OF ADMISSION/ To be Kept in abeyance	B.Sc. Home Science/ B.Sc. (Hons.) Community Sciences/B.Sc. Home Economics/ B.Sc. Family & Community Sciences/ B.Sc. Community & Applied Sciences alongwith Intermediate Science.	
SCIEN	ICE MAJORS					
1.	Agricultural Chemicals	04	No change	B.Sc. with Chemistry as one of the major subjects/B.Sc. Agriculture / Horticulture/ Forestry.	No change B.Sc. with Chemistry as one of the major subjects/B.Sc. Agriculture / Horticulture/Forestry/B.Sc. (Hons.) Ag	
2*.	Agricultural Statistics/ Statistics	04	No change	B.Sc. Ag./B.Sc. (Hons.) Ag. (with Mathematics at Intermediate Level)/ B.Sc. with Maths/ Statistics as one of the major subjects.	No change	
3.	Biochemistry	05	08	B.Sc. in Biochemistry/Biotechnology/ Microbiology/ Agriculture/ Home Science/ Fisheries/Veterinary Science/ Forestry /Food Tech./ B.Sc. with Chemistry as one of the major subjects/ B.Sc. Horticulture.	Microbiology/ Agriculture/ Home	
4.	Botany	04	No change	B.Sc. with Botany as one of the major subjects.	No change	
5.	Chemistry	10	No change	B.Sc. with Chemistry as one of the major subjects.	No change	

S.	Major	No. of Seats		Minimum Eligibility Qualifications	
No.		Existing	Proposed	Existing	Proposed
6.	Environmental Science	03	No change	B.Sc. with Environmental Science/ Environmental Biology as one of the major subjects/ B.Sc. in ZBC/Agriculture/ Fisheries/ Home Science/ Community Science/Forestry/ Horticulture.	
7.	Mathematics	04	No change	B.Sc. with Mathematics as one of the major subjects.	No change
8.	Microbiology	03	No change	B.Sc. in Microbiology/ Biochemistry/ Agriculture/ Fisheries/ Forestry /Home Science/Community Science/ Biotechnology /Biology (Zoology and Botany with any other subject)/B.Sc. Horticulture/B.Tech. (Biotechnology).	
9.***	Molecular Biology & Biotechnology	30	No change	Bachelor's Degree in Agriculture/ Forestry/ Agriculture Biotechnology/B. Tech./ Biotechnology from any Agriculture University.	
10.	Plant Physiology	04	No change	B.Sc. in Agriculture/ Horticulture/ B.Sc. Forestry	
11.	Physics	12	No change	B.Sc. with Physics as one of the major subjects.	No change
VETER	RINARY SCIENCE MAJORS				
1.	Veterinary Anatomy	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
2.	Animal Reproduction Gynaecology & Obstetrics	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
3.	Veterinary Public Health & Epidemiology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
4.	Vety. Surgery & Radiology	08	04	B.V.Sc. & A.H./B.V.Sc.	No change
5.	Veterinary Biochemistry	03	No change	B.V.Sc. & A.H./B.V.Sc.	No change
6.	Veterinary Medicine	<mark>04</mark>	No change	B.V.Sc. & A.H./B.V.Sc.	No change
7.	Veterinary Microbiology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
8.	Veterinary Parasitology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
9.	Veterinary Pathology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change
10.	Veterinary Pharmacology & Toxicology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change

S.	Major No. of Seats		Minimum Eligibility Qualifications			
No.		Existing	Proposed	Existing	Proposed	
11.	Veterinary Physiology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
12.	Veterinary Extension Education	02	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
13.	Livestock Products Technology	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
14.	Livestock Production & Management	05	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
<mark>15.</mark>	Poultry Science	<mark>05</mark>	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
16.	Animal Nutrition	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
17.	Animal Genetics & Breeding	04	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
18.	Veterinary Biotechnology	02	No change	B.V.Sc. & A.H./B.V.Sc.	No change	
MANA	MANAGEMENT PROGRAMMES					
****1.	MBA (Agribusiness)	32	40	Bachelor's and/or Master's degree in Agriculture, Agricultural Chemicals, Agricultural Engineering, Dairy Science/Technology, Fisheries, Food Science/ Technology, Forestry, Horticulture, Veterinary Science, Home Science or B.Tech. (Biotechnology).	Bachelor's and/or Master's degree in Agriculture, Agricultural Chemicals, Agricultural Engineering, Dairy Science/ Technology, Fisheries, Food Science/ Technology, Forestry, Horticulture, Veterinary Science, Home Science/ Community Science or B.Tech. (Biotechnology).	
****2.	МВА	08	<mark>20</mark>	Bachelor's degree in any branch of Engineering/Technology from AICTE approved Institutions/ UGC approved Universities.	Bachelor's degree in any branch of Engineering/Technology from AICTE approved Institutions/ UGC approved Universities.	
M.C.A. PROGRAMME						
****1.	MCA	24	No change	BCA/B.Sc. with Mathematics from a recognized University/B.Sc. (Information Technology)/B.Sc. Computer Science.	No change	

Candidates for Master's programme should refer para 22 for subject group code of Entrance Examination.

****Self-Financing; #30 percent of sanctioned seats are allotted to Other State candidates.

The candidate possessing above qualifications and fulfilling the conditions laid down hereunder shall have to qualify the written test and secure a place in the merit list so as to be eligible for admission:

- (a) The candidate should have secured an OGPA of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in case of the Institutions/Universities where these scales are not applicable in the Bachelor's degree.
- **Note:** (1) In Agriculture programmes the number of candidates admitted from pure Sciences stream shall be limited to 25%.

 However, in case sufficient numbers of qualified candidates are not available, this limitation of 25% shall be relaxed by the Admissions Committee. But, the minimum duration for the said candidates would be six semesters.
 - (2) The minimum degree duration will be six semester for the candidates seeking admission in Agriculture & Community Science Majors who have studied only 3-year degree programme instead of 4- years.

*The students admitted in the programme of Agricultural Statistics/Statistics with qualifications B.Sc.(Ag.)/B.Sc. (Hons.) Ag. will be awarded M.Sc. (Agril. Statistics) degree and those admitted with B.Sc. degree (with Mathematics/Statistics as one of the major subjects) will be awarded M.Sc. (Statistics) degree.

*** Admissions to DBT supported Master's programme (M.Sc. Agricultural Biotechnology) shall be made through online counseling from the list of qualified candidates received from DBT Regional Centre for Biotechnology, Faridabad, which is responsible for conducting Graduate Aptitude Test-Biotechnology (GAT-B) -2022 for admission to the above said programmes throughout thecountry.

Agenda Item No. I/2023:06 Admission Policy (2023-2024) for MBA Programmes

COLLEGE OF AGRIBUSINESS MANAGEMENT

Admission Policy for MBA Programs: Year 2023-24

1. Eligibility Qualifications

M. B. A.

Bachelor's degree with minimum 50% marks (45% in case of candidate belonging to SC/SC category) in the qualifying examination from any of the Universities recognized by the AIU UGC or AICTE failing which the provisional admission will be cancelled.

UG candidates who are waiting for the final result also can apply by clicking "Final Result Awaited" and upload a self-undertaking that he/she will furnish a certificate to institute at the time of the personal interview.

M.B.A. (Agribusiness)

Bachelor's and/or Master's degree in Agriculture, Agricultural Chemicals, Agricultural Engineering, Dairy Science/ Technology, Fisheries, Food Science/ Technology, Forestry, Home-Science/ Community Science, Horticulture, Veterinary Science or B. Tech (Biotechnology).

2. Selection Procedure

The candidate will have to appear either in common Admission Test (CAT) or Common Management Admission Test (CMAT) conducted by respective agencies. CABM will use CAT/CMAT score for short listing the candidates for its two year full time MBA programs. These short listed candidates will have to appear for further screening on the basis of Group Discussion and Personal Interview at CABM, Pantnagar on specified date(s). The candidates willing to take admission in MBA (Agribusiness) or MBA programme of college will have to apply separately to CABM, Pantnagar through online portal of Admission: http://gbpuat.in.

(Group Discussion and Personal Interview will be considered as per decision of Admission Committee keeping in view the situation of COVID-19 at that time in the country/state.)

3. Number of Seats

The regular intake capacity for the MBA (Agribusiness) is 40 and MBA program is 20 i.e. a total of 60 seats out of which 50% seats are for the candidates from States other than Uttarakhand and 50% seats are for candidates of Uttarakhand State in which seats for OBC, SC and ST are reserved as per the reservation policy of the Uttarakhand Government, implemented by GBPUAT, Pantnagar. The seat matrix is given below:

A - MBA (Agribusiness)

Category	Percentage	Available Seats		
	(reservation)	Uttarakhand	Other State	Total
OBC	14%	3		3
SC	19%	4		4
ST	4%	1		1
Gen	Remaining (63%)	12	20	32
Sub total	100%	20	20	40
EWS	10% over and above	2	-	2
Grand Total		22	20	42

B - MBA

Category	Percentage	Available Seats			
	(reservation)	Uttarakhand	Other State	Total	
OBC	14%	1		1	
SC	19%	2		2	
ST	4%	0		0	
Gen	Remaining (63%)	7	10	27	
Sub total	100%	10	10	20	
EWS	10% over and above	01	-	1	
Grand Total		11	10	21	

For the Other-State category, not more than 2 seats will be given to any single state. However, this condition may be waived off by Admission Committee if qualified candidates are not available in a particular state.

In case, the seats in MBA (Agribusiness) program remain vacant, they will be transferred to MBA program and vice-versa. In case, the seats of Other-States remain vacant, they will be filled from the candidates of Uttarakhand State and vice-versa.

In case, candidates of reserved categories are not available, the seats shall be converted to General Category.

- **4. Sponsored Candidates:** Sponsored students under the following categories will be admitted over and above the present sanctioned strength of 40 seats on the following basis:
 - a) Foreign students: Two seats in each Masters program i.e. a total of four seats shall be available to foreign nationals (candidates) provided that they fulfill the eligibility qualifications on payment of fee as per University rule.
 - **b)** Candidates sponsored by GBPUAT, Pantnagar: Two seats in each Masters program i.e. a total of four seats shall be available for candidates sponsored by GBPUAT, Pantnagar.
 - c) Uttarakhand Government Officers: Two seats in each Masters program i.e. a total of four seats will be reserved for Uttarakhand Government officers in addition to the regular seats. The Uttarakhand Government officers will neither be required to take CAT/CMAT examination nor will be required to appear in Group Discussion and Personal Interview. The program fee for these government officers will be double of the program fee meant for the regular candidates.

Eligibility Qualifications for sponsored candidates: The sponsored candidates besides meeting the eligibility qualifications should have secured an OGPA of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in Bachelor's degree. In case of all categories of sponsored candidates, if the seats of MBA (Agribusiness) program remain vacant, the same will be transferred to MBA program and vice-versa.

5. Reservation

Seats for OBC, SC and ST candidates are reserved as per the reservation policy of the State Government of Uttarakhand, implemented by the University. Candidates claiming reservation shall be required to submit appropriate certificate as per Annexure-I, at the time of Group Discussion/ Personal Interview, failing which they shall be treated in general category only. Any subsequent claim for reservation shall not be entertained. For getting reservation under OBC category the certificate should not be issued earlier than March 2020.

6. Candidates from States other than Uttarakhand

A candidate falling in either of the following categories will be considered in 'Other State' category:

a. A candidate who is a permanent resident outside Uttarakhand since birth, or

- b. A candidate whose permanent address is outside the Uttarakhand State, unless he submits domicile certificate of Uttarakhand at the time of Group Discussion/ Personal Interview, or
- c. A candidate who has completed his qualifying examination from outside the Uttarakhand State unless he submits domicile certificate from Uttarakhand at the time of Group Discussion/Personal Interview.

Note: The candidates who have completed their qualifying degree from G. B. Pant University of Agriculture and Technology will be treated as domicile of Uttarakhand for admission to MBA (Agribusiness)/MBA program as per G. O. No. 350/XIII – I/ 30 (2)/ 2001 dated 06/07/08 and 218/ Krishi evam Jalagam/ 2004 dated 28.02.2004, and as per resolution adopted by the Academic Council in its 338th meeting.

7. Duration

The normal duration of MBA (Agribusiness) and MBA program is two academic years or four semesters. The minimum and maximum duration of the program is four and six semesters respectively.

8. Sale and Submission of Application Forms

The candidate can access the application form on website at URL: www.gbpuat.auams.in and the price of form Rs. 1500.00 would have to be paid online as per instructions provided at website. There is no other mode/provision of making form available.

Important dates concerning application form

Start of Online Form Availability: January 02, 2023 (Monday)

Last Date for filling form: March 31, 2023 (Friday)

Last Date with Late Fee (After March 31, 2023): April 15, 2023 (Saturday)

9. Medical Examination

All candidates called for Group discussion/Personal Interview will be required to produce medical and physical fitness certificate from the Chief Medical Officer or equivalent.

10. Verification of Documents

At the time of Group Discussion, candidates will be required to produce all Certificates/mark sheets right from Class X till their eligibility qualifications along with a character certificate from the Head of the Institution (Registrar/ Dean/ Principal/ Director of the University/College/ Institute) last attended.

11. Mode of Admission

The candidates will be selected for admission on the basis of their performance in CAT/CMAT, Group discussion and Personal Interview. The weightage of these three components will be:

Component	Weightage
Entrance Test Score (CAT/ CMAT)	60%
Group Discussion	30%
Personal Interview	10%

The equivalence between CAT and CMAT score will be established as per recommendation by they recommended by the Committee constituted by the Academic Council in its 379th meeting and approved by Academic Council in 385th meeting.

Qualifying marks in entrance test, Group discussion and personal interview will be decided by the Admission Committee.

12. Fee Structure and Payment Schedule

The candidates are required to pay the fee of the MBA programme within the limits specified in the following paragraph. **Admission/Counseling Fee:** All candidates called for Group discussion and Personal Interview (whether finally admitted or not) will be required to deposit a non-refundable fee of Rs. 3,000 as Counseling fee. This is a necessary pre-requisite for attending the Group Discussion and Interview.

- **I) Program and University Fee**: All those candidates admitted to MBA (Agribusiness)/MBA program of CABM will have to pay two kinds of fees separately: (1) the Program fee and (2) the University Fee. The fee details are as follows:
- a) **The Program Fee:** The Program fee for both MBA (Agribusiness)/MBA program has to be paid through DD in favour of 'Dean, College of Agribusiness Management' payable at Pantnagar. A student can also pay this Program fee through RTGS/NEFT based internet transfer and send photocopy of the fee transfer receipt to CABM. (Revolving Fund CABM, Punjab National Bank, Pantnagar, IFSC Code: PUNB0444600, Account No: 4446001100000145)

The details of this Program fee is as follows:

Before Registration in First Semester* 2023-2024 : Rs. 3,25,000/= Ist day of Registration in First Semester 2024-2025 : Rs. 3,25,000/=

The programme fee for the sponsored candidates will be double of the amount charged for regular/ normal candidate.

*By a date fixed by the Admission Committee but before the registration in first semester.

b) **The University Fee:** The University fee has to be paid at the time of registration through DD in favour of the Comptroller, GBPUAT, Pantnagar. The details of the present University fee is as follows:

First day of Registration in I Semester	2023-2024	:	Rs. 20442.00 **
First day of Registration in II Semester	2023-2024	:	Rs. 20442.00 **
First day of Registration in I Semester	2024-2025	:	Rs. 20442.00 **
First day of Registration in II Semester	2024-2025	:	Rs. 20442.00 **

In addition to the fee above, students have to pay food advance of Rs 20000/- each semester.

NOTE:

- 1. The program fee shall be paid as soon as the admission is confirmed as per the Admission Offer letter issued.
- 2. The program fee shall be per annum irrespective of number of semesters completed by the student in an academic year.
- 3. Only Caution Money is refundable.
- 4. Only Food advance is adjustable.
- 5. Food bills on actual are to be paid every month.

Note: 1. The application form has already been uploaded on University Admission Portal.

2. All the process of admission shall be carried out by Controller of Examination in the online mode.

^{**} Subject to the revision by the University.

Agenda Item No. I/2023:07 Implementation of SWAYAM / MOOCcourses in PG degree programs in disciplines of Technology and Agri-Business Management and transfer of their credits

College of Agribusiness Management, GBPUAT, Pantnagar

List of MOOC Courses Selected

S.No.	Area	Course or its equivalent*
1.	MOOC Course 1	Stress Management and Personality Development
2.	MOOC Course 2	Technical Writing and Communications Skills
3.	MOOC Course 3	Intellectual Property and its management
4.	MOOC Course 4	Agricultural Research, Research Ethics and Rural Development Programmes
5.	MOOC Course 5*:	Venture Capital
	Business Plan	Business model innovation
	MAM606	Creating Innovative Business Models
	A CONTRACTOR OF THE CONTRACTOR	Business Model Implementation
		How to design a successful business model
		The value of business models
6.	MOOC Course 6*:	Digital Marketing Strategy
	Digital Marketing	Digital Leadership
	MAM541	Digital Strategy And Action
	Contract of the Contract of th	Marketing in a Digital World
		Digital Marketing Fundamentals
		Digital Branding and Engagement

(Professor-I/C-PGP)

(Dean-CABM)



Department of Industrial and Production Engineering <u>College of Technology</u>

No.CTE/IPED-: 3926

Dated: 20-01-23

Dean, PGS

In reference to Dean PGS letter no. PGS/HA/6213 dated 12.11.2022 and letter no. PGS/RRSyllabi/6367 dated 26.12.2022, regarding inclusion of MOOC/SWAYAM Course in M. Tech. (Manufacturing Engineering & Management) Industrial and Production Engineering Department, the following is the list of MOOC/SWAYAM Course(s) available currently on SWAYAM portal which can be taken by the students as an elective in lieu of programme elective offered by the department in II semester 2022-23.

Sr. No.	Course No. and Title of Approved Course	Credit Hrs	Equivalent MOOC/SWAYAMNPTEL Coursed Name and duration	Last date of enrollment
1.	TIP 771; Advanced Production / Operations Management	3(3-1-0)	Decision making with spreadsheet Code of the Course: noc23- mg27 Duration: 12 weeks 3 credits	30/01/2023
2.	TIP 651; Industrial Manufacturing Management	3(3-0-0)	Product Design and Manufacturing Code of the Course: noc23- me14 Duration /credits: 12 weeks 3 credits	30/01/2023

Cc: Dean CT

DEAN, P.G.S



Department of Computer Engineering College of Technology

Letter No.: CTE/Comp.Engg./ /050

Date: 29.12.22

✓ Dean PGS

With respect to Dean PGS letter no PGS/HA/6213 dated 12/11/2022 and letter no PGS/RRSyllabi/6367 dated 26/12/2022, regarding inclusion of MOOC/SWAYAM Courses in M.Tech (Computer Engineering) programme, the following is the list of MOOC/SWAYAM Course(s) to be taken by the students in online mode:

S.No.	Name of elective course code & names from approved course programme	Credit Hrs	Equivalent MOOC/SWAYAM Course(s)	
1.	TCT 661 - Computer Vision	3	Computer Vision and Image Processing - Fundamentals and Applications	
2.	TCT 653 - Ethical Hacking	3	Ethical Hacking	
3.	TCT 639 - IOT Application and Communication Protocol	3	Introduction To Internet Of Things	
4.	TCT 641 - Machine Learning	3	Introduction to Machine Learning	
5.	TCT 613 - Natural Language Processing	3	Natural Language Processing	
6.	TCT 609 - Advanced Computer Architecture		Advanced Computer Architecture	
7.	TCT 614 - Artificial Intelligence and Expert Systems	3	An Introduction to Artificial Intelligence	

Minutes of the departmental meeting regarding listing of MOOC/SWAYAM Courses is also attached along with this letter.

(S.D. Samantaray) Professor & Head

Department of Computer Engg.

CC: Dean CT

Dr. Rajeev Singh, PG Coordinator, Computer Engg.



<u>Department of Information Technology</u> <u>College of Technology, Pantnagar</u>

Dated: 04/01/2023

Dean, CT

Please refer to the letter no. PGS/HA/6213 dated November 12, 2022, regarding MOOC/SWAYAM courses of M.Tech. (IT) programme of the department. Followings are the list of MOOC/SWAYAM equivalent courses.

M.Tech. (Information Technology)

Sl. No.	Name of the Elective Course from approved course programme	Credit Hours	Equivalent MOOC/SWAYAM course
1.	Advance Data Mining & Warehousing (TIT-624)	3(2-0-1)	Data Mining (NPTEL/ SWAYAM) 12 Weeks Course
2.	Digital Forensics (TIT-626)	3(3-0-0)	Digital Forensics (SWAYAM/NPTEL) 12 Weeks Course
3.	Machine Learning & Blockchain (TIT-627)	3(3-0-0)	Introduction to Machine Learning (NPTEL) 12 Weeks Course
4.	Semantic Web & Social Networks (TIT-630)	3(3-0-0)	Social Networks (NPTEL) 12 Weeks Course
5.	Computer Vision (TIT-636)	3(3-0-0)	Social Networks (NPTEL) 12 Weeks Course

Head

Information Technology

Head Feptt. of information Technology

100 CT ONICE 387

Forwarded to Dear P. G.S.

- 9/1/23

अधिष्ठाता प्रौद्योगिनम् सहिवस्तव

DEAN PGS



OFFICE OF THE HEAD DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG. COLLEGE OF TECHNOLOGY

CT/E&CE/: \0\7 Dated: 19.01.2023

Dean PGS

In reference to Dean PGS letter No. PGS/HA/6213 dated 12.11.2022 and letter no PGS/RRSyllabi/6367 dated 26.12.2023, regarding inclusion of MOOC/SWAYAM Course in M.Tech Electronics and Communication Engineering programme, the following is the list of MOOC/SWAYAM Course(s) available currently on SWAYAM portal which can be taken by the students as an elective in lieu of programme elective offered by the department in II semester 2022-23.

S.N.	Course No. and Title of Approved Course	Credit Hrs	Equivalent MOOC/ SWAYAM / NPTEL Course Name and duration	Last date of enrollment
1	TEC-633 RTL Simulation and Synthesis	3	Design & Analysis of VLSI Subsystems (23.01.2023 to 14.04.2023)	30 January 2023
2	TEC-680 Microwave Propagation and Systems	3	RF & Microwave Network (23.01.2023 to 14.04.2023)	30 January 2023
3	TEC-632 Analog VLSI Design	3	Analog IC Design (23.01.2023 to 14.04.2023)	30 January 2023

The list has been prepared after discussing it in the meeting of faculty of Electronics and Communication Engineering department held on 17.01.2023.

Cc: Dean CT

19/01/23



Department of Civil Engineering College of Technology

No-CTE/CED/1454 Dute-19-01-2023

Dean PGS

With respect to Dean PGS letter no PGSHA 6213 dated 12/11/2022 and letter no PGS/RRSyllabi/6367 dated 26/12/2022. Regarding inclusion of MOOC/SWAYAM Courses in PG Programs of Civil Engineering. The following is the list of MOOC/SWAYAM Course (s) to be taken by the students in online mode.

SI No.	MOOC/SWAYAM Courses	PG Program .	Credit Hr	Important Date
1	Characterization of Construction Materials	M. Tech. Civil Engineering (Structural Engineering)	03	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023
2	Retrofitting and Rehabilitation of Civil Infrastructure	M. Tech. Civil Engineering (Structural Engineering)	03	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023
3	Advanced Soil Mechanics	M. Tech. Civil Engineering (Soil Mechanics and Foundation Engineering)	03	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023
4	Soil Dynamics	M. Tech. Civil Engineering (Soil Mechanics and Foundation Engineering)	03	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023
5	Microwave Remote Sensing in Hydrology	M. Tech. Civil Engineering (Hydraulic Engineering)	03	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023
6	Remote Sensing: Principles and Applications	M. Tech. Civil Engineering (Hydraulic Engineering)	03 -	Start Date :23 Jan 2023 End Date :14 Apr 2023 Exam Date :29 Apr 2023 Enrollment Ends :30 Jan 2023

PS. AUII

(P.S.Mahar)
Head, CED
Head
Chiff Engineering Deptt



Department of Electrical Engineering College of Technology

Dean PGS

Head, EED office (COT) Dispatch No.17.73...... Date: 19.-1-23.....

Secretaria to the first

Subject: MOOCS/SWYAM Courses

In reference to your letter no PGS/RRSyllabi/6441 Dated: 16.01.2023, the list of MOOCS courses and their equivalent relevant courses for Electrical Engineering Department are listed below:

S.No.	Elective courses from the course programme	Credit hours	Equivalent MOOCs /SWYAM courses
1.	TEE-633 Artificial Intelligence and Soft Computing Techniques	reical Ergine sing	An Introduction to Artificial Intelligence
2.	TEE-647 Non-Linear and Digital Control	3	Dynamical System and Control
3.	TEE-636 Power Quality	3	Power Quality
4.	TEE-629 Power System Stability and Control	3	Power System Dynamics Control and Monitoring

in a terastrillo your letter in FG5/RRB; Hapt/644 Dottell/ 16.01

CC:

1. Dean CT for kind information

2. Office Copy

1. Control

Report of the Committee Constituted Vide Office Order PGS/P-S/6483 Dated 24.01.2023 Regarding Preparing Guidelines for On-Line Courses Credit Transfer

Background

SWAYAM is the National portal of Government of India for offering Massive Open Online Courses (MOOCs). At present SWAYAM has following National Coordinators for each of the Sectors for the purpose of development of the e-content, delivery of online courses and overseeing the assessment procedures of courses offered.

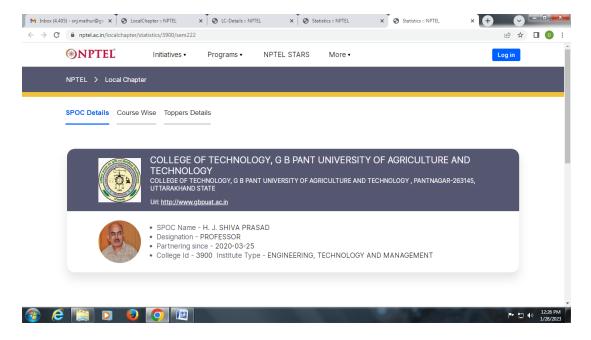
S. No.	National MOOCs Coordinator	Sectors
1	University Grants Commission(UGC)	Non-Technology Post Graduate Degree Programmes.
2	NPTEL	Technical / Engineering UG & PG degree programmes.
3	Consortium for Educational Communication	Non Technology Under Graduate Degree programmes.
4	IGNOU	Diplomas and Certificates programmes
5	NCERT	School Educational Programmes from Class 9th to 12th.
6	NIOS	Out of school children Educational Programmes from Class
		9th to 12th.
7	IIM Bangalore	Management programmes.
8	NITTR, Chennai	Teacher Training programme.

UGC has already issued the UGC (Credit Framework for online learning courses through SWAYAM) Regulation 2016 advising the Universities to identify courses where credits can be transferred on to the academic record of the students for courses done on SWAYAM (Annexure-1). AICTE has also put out gazette notification in 2016 and subsequently for adoption of these courses for credit transfer (Annexure-2). Colleges can identify MOOCs offered by various platforms available on SWAYAM; e.g. NPTEL for technology and management students and IIM Bangalore for management students. NPTEL has published recommendations for universities to implement credit transfer from swayam NPTEL MOOCS on NPTEL portal itself (Annexure-3).

Following important and relevant information is extracted from the recommendations by NPTEL

- 1. NPTEL courses are for a duration of 4/8/12 weeks which requires a minimum learning effort by the student of 16/32/48 hrs and credits are assigned as 1/2/3 respectively. However, additional effort of 1-5 hrs from the learners in an online course is also possible due to complex assignment, going through the text documents and forum discussion. In view of the above, an additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved. Hence the University taking the courses for credit transfer can decide on how they calculate learner engagement and appropriately take the courses for minimum credits recommended or minimum credits+1 as suggested.
- 2. NPTEL offers courses in two timelines January to May and July to November every year. Course list is announced 6 months ahead of course start date. Enrollment is normally opened 2 months ahead of course start date and closes on the start date of course.
- 3. To get a certificate from SWAYAM-NPTEL, the learner has to separately register and appear in person for a proctored exam. The exam registration forms are opened almost a month before the start of the course and open till 3 weeks into the course. This exam is organized and conducted by NPTEL across 150+ cities in the country through an exam vendor. The exam carries a fee of Rs 1000/- to cover the expenses incurred in organizing this exam. Upon passing a course the learner gets an e-certificate which carries a QR code, on scanning which, the original certificate hosted on NPTEL server will be accessible. This way any one presented with the e-copy can verify against the original.

- 4. Final score = 25% of Average assignment score (out of 100) + 75% of proctored certification exam score (out of 100). Learner is said to be certified in the course and he/she will be eligible for the e-certificate IF Average assignment score >= 40/100 AND Proctored certification exam score >= 40/100
- 5. NPTEL offers a variety of courses which include core, elective and multidisciplinary courses at UG and PG level every semester. It recommends that the courses taken by the students be a discipline elective not offered by the college - so that they can leverage the online course initiative completely - which is to facilitate opportunities in areas of learning for which faculty are not locally available.
- 6. NPTEL works closely with colleges and Universities in India through its Local Chapter (LC) programme. There is an NPTEL coordinator in every local chapter college and this person has access to all information such as course wise participant enrollment, exam registration details, hall tickets, final exam marks and e-certificates of learners who have declared as belonging to that college. These coordinators have direct access to support teams at NPTEL to get any issues resolved with respect to courses/exams. College of Technology, Pantnagar is already an LC of NPTEL and Dr H J S Shiva Prasad is designated as Single Point of Contact (SPOC). The screenshot of the same is appended below.



- 7. NPTEL recommends that colleges be allowed to decide the specifics of the courses to be taken in a specific semester and intimate the same to the University. It is suggested that courses for credit transfer can be approved under all buckets core courses, discipline elective, general elective and open elective. NPTEL does not recommend offering MOOCs for FIRST and FINAL semester of programme.
- 8. The cutoff for pass/fails in a course can be decided by the university/college if required, though the actual marks as given by NPTEL is what will always be stored and saved in the NPTEL server.

9. A common issue that arises is that students have already paid the fees for the courses of each semester to the institution. It is suggested by NPTEL for the institute to pay for the exam completely or at least half the fee, the other half being borne by the student.

Recommendations for MOOCs:

- 1. A student can opt to offer at the most 02 MOOC courses in first year of his/her Master's degree program; one in lieu of Program Electives.
- 2. The credit load of the MOOC courses will not be considered to calculate maximum credit load in a semester.
- 3. The MOOC course under the category Program Elective should be of credits equal or more credits of program elective and can be taken from the list of MOOC courses available on SWAYAM/ NPTEL at the time of registration in the concerned semester, as notified by the concerned department. However, depending on the nature of course the department may assign +1 credit to MOOC.
- 4. All the expenditure including the fee for examination or passing certificate shall be borne by the student. A policy to reimburse the exam fee for any section of students may be decided separately.
- 5. Grades of MOOC course will be submitted on producing the passing certificate to the faculty designated by the department.
- 6. The passing marks for the MOOC courses shall be at par with passing marks as per university academic regulation i.e. 60% for Master's students.
- 7. In case a student fails to pass the MOOC course as per minimum passing marks criterion of university, he /she shall have to either repeat the same course or offer any other course of the same credits from the list of courses notified by the department in subsequent semester/ year.
- 8. Necessary modification in AUAMS shall be required to accommodate the registration of a MOOC and credit acceptance with grades. Registrar office must be provided with support for process flow to incorporate these modifications. The course Number for MOOC may be in the format like TEC-MOOC1/MOOC2 etc. where MOOCx shall be mapped to the actual course title given by NPTEL.

(Ajay) Prof & Head, IPED (Saurabh Singh)
Assoc Prof CABM
Member

Chairman

(Sanjay Mathur)
Prof & Head, ECED

(Rajeev Singh)
Assoc Prof Comp Engg

GUIDELINES FOR ONLINE COURSE CREDIT TRANSFER

Recommendations for MOOCs proposed by committee vide office order No. PGS/PS/6483 dated 24.01.2023			rkable Guidelines oosed for Approval	
1. A student can opt to offer at the most 02 MOOC courses in first year of his/her Master's degree program; one in lieu of Program Electives.	Maste	A student can opt to offer at the most 2 MOOC courses in first year of his/he Master's degree programme/MBA, one in lieu of programme elective in Technology discipline.		
2 . The credit load of the MOOC courses will not be considered to calculate maximum credit load in a semester.		credit load of the MOOC load (23 credits).	courses will be considered within maximum	
3 . The MOOC course under the category Program Elective should be of credits equal or more credits		MOOC course under the l be of credits equal or more	category Program Elective/Common courses re credits.	
of program elective and can be taken from the list of MOOC courses available on SWAYAM/		•	ed for regulating the MOOC course notification, ission of grade at department level.	
NPTEL at the time of registration in the concerned semester, as notified by the concerned department. However, depending on the nature of course the department may assign +1 credit to MOOC.	The MOOC course(s) can be taken from the lists of MOOC courses available on SWAYAM Portal from time at the time. SWAYAM is the National			
	S. No.	National MOOCs Coordinator	Sectors	
		University Grants Commission(UGC)	Non-Technology Post Graduate Degree Programmes.	
	2	NPTEL	Technical / Engineering UG & PG degree programmes.	
	3	Consortium for Educational Communication	Non Technology Under Graduate Degree programmes.	
	4	IGNOU	Diplomas and Certificates programmes	
	5	NCERT	School Educational Programmes from Class 9th to 12th.	
	6	NIOS	Out of school children Educational Programmes from Class 9th to 12th.	
	7	IIM Bangalore	Management programmes.	
	8	NITTR, Chennai	Teacher Training programme.	

	UGC has already issued the UGC (Credit Framework for online learning courses through SWAYAM) Regulation 2016 advising the Universities to identify courses where credits can be transferred on to the academic record of the students for courses done on SWAYAM. AICTE has also put out gazette notification in 2016 and subsequently for adoption of these courses for credit transfer. Colleges can identify MOOCs offered by various platforms available on SWAYAM; e.g. NPTEL for technology and management students and IIM Bangalore for management students. NPTEL has published recommendations for universities to implement credit transfer from SWAYAM NPTEL MOOCS on NPTEL portal itself.
	The list of courses available for registration along with the equivalent Elective/Common course will be approved from Academic Council prior to registration in every semester.
	The student may register the respective equivalent course for the MOOC course in succeeding semester on successful completion of the online course.
	A MOOC course of 4/8/12 weeks will be equivalent to a course 1/2/3 credits i.e. 16/32/48 contact hours.
4 . All the expenditure including the fee for examination or passing certificate shall be borne by the student. A policy to reimburse the exam fee for any section of students may be decided separately.	All the expenditure including the fee for examination or passing certificate shall be borne by the student.
5 .Grades of MOOC course will be submitted on producing the passing certificate to the faculty designated by the department.	The passing marks for the MOOC course shall be at par with passing marks as per university academic regulation i.e. 60% for Master's programme course.
6. The passing marks for the MOOC courses shall be at par with passing marks as per university academic regulation i.e. 60% for Master's students.	Grade of MOOC course will be submitted by the designated faculty on producing the passing certificate by the student.

7. In case a student fails to pass the MOOC course as per minimum passing marks criterion of university, he /she shall have to either repeat the same course or offer any other course of the same credits from the list of courses notified by the department in subsequent semester/ year.

In case a student fails to pass the MOOC course as per minimum passing marks criterion of university, he/she shall have to either repeat the same course or any other equivalent course from the list of courses notified by the department in subsequent semester/year.

8. Necessary modification in AUAMS shall be required to accommodate the registration of a MOOC and credit acceptance with grades. Registrar office must be provided with support for process flow to incorporate these modifications. The course Number for MOOC may be in the format like TEC-MOOC1/MOOC2 etc. where MOOCx shall be mapped to the actual course title given by NPTEL.

Necessary provision in AUAMS shall be required to accommodate the registration of a MOOC and credit acceptance with grades.

Registrar office must be provided with support for process flow to incorporate these modifications.

The MOOC course will be added in the course programme as MOOC1 and MOOC2. Later on successful completion of the course it would be added in course programme before degree completion and will be stated as follows:

Course no. of of the university course (Elective/Common) – MOOC: Title of the Online course

Course no. of equivalent course from course programme. The university course from course programme will be the one which has been approved by AC as equivalent course for a MOOC in a specific semester.

Agenda Item No. I/2023:08 Election of Secretary, Post Graduate Faculty

Agenda Item No. I/2023:09 Any other item with the permission of Chair.

Agenda Item I/2023:09(01)

No. (i)

- (i) Start of P.G. degree i.e. M.Sc. (Community Science) Extension Education & Communication Management as recommended by BSMA-ICAR from academic year 2023-2024
- (ii) Course programme for M.Sc. (Community Science) Extension Education & Communication Management
- (iii) Syllabus for M.Sc. (Community Science) Extension Education & Communication Management

Department of Home Science Extension College of Home Science

Dean, Post Graduate Studies GBPUA&T, Pantnagar

No.CHS/H.Sc.Ext.

/ Date:

Through: Dean, College of Home Science

Subject: Agenda for discussion in forthcoming PG faculty meeting

This is in reference to letter no. PGS/HA/6414 dated: Jan. 09, 2023 for an agenda item to be submitted for discussion and approval in the forthcoming meeting of PG faculty. Please find enclosed herewith the agenda items from the department of Home Science Extension, College of Home Science:

- 1. Start of PG degree i.e., M.Sc. (Community Science) Extension Education & Communication Management as recommended by BSMA-ICAR for the academic year 2023-2024
- 2. Course programme for M.Sc. (Community Science) Extension Education & Communication Management
- 3. Syllabus for M.Sc. (Community Science) Extension Education & Communication Management

The items have been discussed in departmental meeting and may be considered for inclusion in the upcoming meeting of PG faculty.

Submitted for kind perusal and necessary action please.

Incharge Home Science Extension

Encl.: As above

(i) Start of PG degree (M.Sc. programme) of the department in M.Sc. (Community Science) Extension Education & Communication Management as recommended by BSMA-ICAR from academic year 2023-2024

NEED AND JUSTIFICATION

The College of Home Science was established on 15th July, 1971 with an undergraduate programme and since then the department of Home Science Extension is existing in the college. The post graduate programme is not running in the department and since extension is an important mandate in the university, hence post graduate research in Extension Education & Communication Management is essentially required. The Master's programme in the department is proposed as M.Sc. (Community Science) Extension Education & Communication Management which is recommended by BSMA-ICAR. Specialization in EECM would foster unique capabilities and skills among students to satisfy the community with versatile needs through application of latest scientific and technological innovations using latest communication methods for sustainable development of communities at state and national level. The discipline will help in development of creative potential of the individual for remunerative career opportunities and professionalism in planning of extension systems and implementation through effective communication also the multi dimensional approach of the course programme will encourage skill development, capacity building, entrepreneurship development and in transfer of technology.

The opening of Master's degree programme is required in Extension Education & Communication Management as the undergraduate students of B.Sc. (Hons.) Community Science will get an opportunity to pursue higher education in the area of Extension Education & Communication Management. It is an important component in general and specifically to Community Science in present day transforming environment in industry as well as academic sector. The postgraduate research in the areas related to needs of the community, women, children and youth of Uttarakhand; impact assessment of developmental programmes; media development and its applications and capacity building will improve the visibility of college of Home Science in the present context through database update.

The degree programme will help in development of creative potential of students for diverse career opportunities in different departments and ministries of state government/ central government, ICAR institutes, NGOs, SAUs, KVKs, IGNOU etc. Opportunity in HRD/state line departments of women and child development, education etc., as programme planners, media managers etc. Students will be prepared to work as personnel/ research scientists at different national and international organizations such as MANAGE, NIRD, NAARM, FAO, ICRISAT and others.

The Master's degree programme in Extension Education & Communication Management will develop professional capabilities of the faculty through engagement in post graduate research and their applications in field.

FACULTY POSITIONS

The department includes four sanctioned faculty positions as given below:

Sanctioned positions	Filled	Vacant
Professor-1	-	1
Asstt. Professor-2	2	-
SRO	1*	-

^{*} The salary is being drawn from the department by some other faculty of the university who is not involved in teaching load of the department.

Name of faculty	Designation	Year of joining	Year of
			retirement
Dr. Anupama Pandey	Asstt. Professor/ Incharge	24.12.2004	31.07.2036
Dr. Pooja Tamta	Asstt. Professor	23.11.2015	30.11.2051

Teaching personnel will be engaged against the vacant positions of the department.

Research facilities

Infrastructural facilities available in the department include three laboratories. The other facilities of the university such as university printing press, communication centre and janvani will be utilized to conduct the practicals under different courses in the degree programme which are also being used in the current undergraduate programme.

No. of seats - 02

Degree duration/Semester - Regular 04 semesters; maximum 06 semesters

Student with remedial- maximum 08 semesters

Faculty requirement

As this new PG programme is starting hence new faculty positions are also desired:

- One Professor
- Two Assistant Professors

Eligibility qualification - B.Sc. Home Science/ Home Economics/ Family and

Community Science/ B.Sc.(Hons.) Community Science/ Community and allied sciences along with intermediate

science.

Mode of admission - Through university entrance exam

Fee structure - As per university rules

Goal - To develop skilled and qualified manpower for emerging

job scenario in the transforming employment market

Hence, starting of **M.Sc.** (Community Science) Extension Education & Communication Management as per BSMA-ICAR recommendation from the academic year 2023-24 is proposed in College of Home Science.

The agenda item has been discussed in departmental meeting hence proposed to be discussed in forthcoming meeting of PG faculty.

U.G. Course Load

S.	Course No.	Course Title	Credit	Teaching Load
No.				
1.	HEX-300 (I st Semester)	Extension and Rural Development	2(2-0-0)	2
2.	HEX-301 (II nd Semester)	Women in Agriculture	3(3-0-0)	3
3.	HEX-302 (I st Semester)	Programme Development for Rural	4(2-0-2)	14
		Families		
4.	HEX-303 (II nd Semester)	Extension Training Management	3(1-0-2)	13
5.	HEX-304 (I st Semester)	Information and Communication	3(1-0-2)	13
		Technology		
6.	HEX-305 (II nd Semester)	Diffusion and Adoption of	3(2-0-1)	8
		Homestead Technologies		
7.	HEX-498 (I st Semester)	RAWE/In-Plant Training	20	40
8.	HEX-495 (II nd Semester)	Hands on Training in Print &	20	40
		Electronic Media Production		
	·	Total	58	Total Load 133

Ist Semester teaching load -69 IInd Semester teaching load -64

Tentative P.G. Course Load

S.	Course	Course Title	Credit	Load
No.	No.			
1.	HEE-601	ICT and New Media	4(1-0-3)	10
2.	HEE-602	Technology Transfer and Management	3(1-0-2)	7
3.	HEE-603	Dynamic Communication	3(1-0-2)	7
4.	HEE-604	Climate Change Management	2(1-0-1)	4
5.	HEE-502	Development Communication	3(2-0-1)	5
6.	HEE-581	Research Methodology in Community Science	3(2-0-1)	5
7.	HEE-506	Group Dynamics	2(2-0-0)	2
8.	HEE-688	Master's Seminar	01	1
9.	HEE-503	Participatory Programme Development	3(1-0-2)	7
		Total	24	Total Load 48

(ii) Course programme for M.Sc. (Community Science) Extension Education & Communication Management in the department as recommended by BSMA-ICAR.

The course programme was discussed in the departmental meeting. Hence proposed for discussion in forthcoming meeting of PG faculty. The details of course programme are as follows:

Department of Extension Education & Communication Management M. Sc. Community Science (Extension Education & Communication Management)

Major Courses			
HEE 601*	ICT and New Media	4(1-0-3)	
HEE 602*	Technology Transfer and Management	3(1-0-2)	
HEE 603*	Dynamic Communication Skills	3(1-0-2)	
HEE 604*	Climate Change Management	2(1-0-1)	
Remaining	credits of major courses will be chosen from list of post	8	
Graduate C 500 series	ourses of Extension Education & Communication Management,		
Seminar			
HEE 688	Master"s Seminar	1	
	ional Courses	8	
Supporting			
AAC 635	Capacity Development	3(2-0-1)	
BPS 625	Statistical Methods	3(2-0-1)	
Common C	Courses	,	
BHS 500	Technical Writing and Communication Skills	1(0-0-1)	
BHS/AAC	Research, Research Ethics and Rural Development Programmes	1(1-0-0)	
502			
BPC 506	Basic Concepts in Laboratory Techniques	1(0-0-1)	
AGP 518	Intellectual Property and its Management	1(1-0-0)	
BHS 611	Library and Information Services	1(1-1-0)	
Research			
HEE 690	Master"s Thesis Research	30	
	Total	70	
Minor courses (For other departments)			
HEE 602	Technology Transfer and Management	3(1-0-2)	
HEE 603	Dynamic Communication Skills	3(1-0-2)	
Remaining 2 credits will be chosen from the list of Post Graduate Courses of Extension			

Education & Communication Management, 500 series

Remedial Courses for the Post Graduate students who did graduation with three year degree programme

HEX-495	Hands on Training in Print & Electronic Media Production	20
HEX-490	Developmental Programmes for Social Change	4(2-0-2)

*Compulsory Courses

List of the Post Graduate Courses

HEE 501	Global Extension Systems	3(3-0-0)
HEE 502	Development Communication	3(2-0-1)
HEE 503	Participatory Programme Management	3(1-0-2)
HEE 504	Organizational Development and Human Resource Development	2(1-0-1)
HEE 505	Educational Technology	3(2-0-1)
HEE 506	Group Dynamics	2(2-0-0)
HEE 507	Community Development and Outreach	3(2-0-1)
HEE 508	Gender Sensitization for Empowerment	2(2-0-0)
HEE 581	Research Methodology in Community Science	3(2-0-1)
HEE 601*	ICT and New Media	4(1-0-3)
HEE 602*	Technology Transfer and Management	3(1-0-2)
HEE 603*	Dynamic Communication Skills	3(1-0-2)
HEE 604*	Climate Change Management	2(1-0-1)
HEE 687	Special Problem on Out Sourcing for Media Product Development	2(0-0-2)
HEE 688	Master"s Seminar	1
HEE 690	Master"s Thesis Research	30

^{*}Compulsory Courses

(iii) Syllabus for M.Sc. (Community Science) Extension Education & Communication Management as recommended by BSMA-ICAR.

The detailed course outlines of the courses included in the course programme of M.Sc. (Community Science) Extension Education & Communication Management has been discussed in the departmental meeting. Hence proposed for discussion in the forthcoming meeting of PG faculty. The syllabus is as follows:

DEPARTMENT OF EXTENSION EDUCATION & COMMUNICATION MANAGEMENT

Course Title : ICT and New Media

Course Number : HEE601 Pre-requisite:

Nil Credit Hours : 4 (1-0-3)

Why this Course?

A revolution has occurred in information technology, significantly impacting human communication, thereby human development. The speed and rapidity of information process due to information technology revolution maximised the gadget adoption and usage irrespective of geographical and demographical range. Thus, a new set of relationships and responsibilities emerged among the information processors to satisfy the information needs of versatile users. This course provides such competency among the students for interactive communication in a flash to any corner of the world.

Aim of the Course

- 1. To familiarize students with ICT (Information Communication Technology), new media technologies and provide application skills.
- 2. To provide hands-on-experience on application of ICT tools and devices
- 3. To expertise in analytics tracking to analyse information reach.

Catalogue Description

UNIT I: Information Communication Technology

Information Communication Technology - Components of ICT, role of ICT in community education; IT enabled services - call centre, helpdesks, data warehouse; current status of application; government policy on ICT; emerging research issues.

UNITII: Perspective of new media

Definitions- Software and hardware components, traditional media transition to new media; knowledge management and archiving; networks; social media - advantages and limitations.

UNIT III: Multimedia - concept and evolution

Digital audio - Sound design and mixing, digital videography and photography, digital text writing.

UNIT IV: Web and blog designing

Introduction of HTML and basic tags, HTML document structure; Cascading Style Sheets (CSS); text in CSS and working.

Lecture Schedule

SI.	Lecture	No. of
No.	Topics	classes
1.	Information Communication Technology - Components of ICT.	1
2.	Role of ICT in community education.	1
3.	IT enabled services - Call centre, helpdesks, data warehouse.	1
4.	Current status of ICT application.	1
5.	Government policy on ICT.	1
6.	Emerging research issues.	1
7.	Perspective of new media - Definitions, software and hardware	1
	components.	
8.	Traditional media transition to new media.	1
9.	Knowledge management and archiving; networks.	1
10.	Social Media - Advantages and limitations.	1
11.	Multimedia - Concept and evolution; digital audio - sound design and mixing.	1
12.	Digital videography and photography.	1
13.	Digital text writing.	1
14.	Web and blog designing and hosting.	1
15.	Introduction of HTML and basic tags; HTML document structure.	1
16.	Cascading Style Sheets (CSS), text in CSS and working.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI. No.	Practical	No. of class es
1.	Multimedia and emerging technologies - Introduction to video-on demand, internet - radio and web television	1
2.	Introduction to internet and the browsers	1
3.	Introduction to internet access and browsing	1
4.	Introduction to internet access and browsing extension related websites, blogs and data bases	1
5.	Exposure to network	1
6.	Compose e-mails, send and receive mails	1
7.	Video on demand- different video formats	1
8.	Creating a basic video clip with video editing software.	1

9.	Adding audio into developed videos.	1
10.	Editing of existing videos and audios	1
11.	3	1
	video formats	
12.		1
	websites	
	and browsing	
	Web television- Exposure and accessing	1
14.	1	1
	traditional media formats- collection of literature	
15.		1
13.	of	'
	traditional media and new media	
16.	Writing on specialized area on the web	1
17.	Writing for general interest Web- script writing concepts and	1
	principles	
18.	for web Writing for online- script writing concepts, principles and styles	1
19.		1
19.	principles and styles	!
20.		2
	principles and styles	
21.	Writing for video logs, citizen journalism- script writing concepts,	1
	principles and styles	
22.		1
	browsing sites, accessing and downloading the journal articles	
23.	Evaluation of e-journals	1
	Submission of reports	1
	Unique features of web language- Open source softwares viz,	1
	wordpress, joomla, moodle	
26.	Introduction and basics to advanced HTML	1
27.	Introduction of Cascading Style Sheets	1
28.	Orientation – javascript and HTML scripts	1
29.	Designing web page- Home page(landing page), hyperlinks with	1
	using CSS	
30.	Practical exercise on designing a web page by using HTML5 and	1
50.	CSS3.	
31.	To create responsive (mobile friendly) pages with using HTML5	1
	and	
	CSS3.	4
32.	Designing web page- Home page, hyperlinks - open source softwares	1
	DUILWAIED	

	viz, Wordpress.	
33.	Explanation of Wordpress dashboard and creating blog in Wordpress.	1
34.	Hosting a Wordpress blog online	1
35.		1
36.	Adding google analytics into HTML page and Wordpress pages	1
37.	Introduction to interactive web media- web animation	1
38.	photoshop	1
39.	Exposure to animated graphics in the web	1
40.	Introduction to designing interactive elements and sound addition	1
41.	Introduction to web visual editor, creation and editing.	1
42.	Acquiring a domain and webhosting to host the website/blog.	1
43.	Familiarisation with FTP and Cpanel	1
44.	Hosting website online	1
45.	Update/change the contents and images in online website after hosting.	1
46.	Take up the backups of the website after hosting a website.	1
47.	Tracking web traffic from analytics	1
	Lab final Examination	1
	Total	49

Learning Outcomes

After successful completion of the course, the students will be able to:

- 1. Comprehend the role of ICT based services for community education and development
- 2. Figure out the required soft and hard ware components in application of new media for interactive communication
- 3. Develop content for web sites
- 4. Design, develop and manage websites
- 5. Track web analytics and analyse the impact

Teaching Methods / Activities

- Lectures
- Assignment
- Practice sessions
- Media development and transmission
- Student"s presentation
- Guest lectures

Suggested Readings

1. Vanaja & Rajasekar, (2016). .Information & Communication Technology (ICT) In Education. Ist edition, Neelkamal.

ISBN- 0: 8183165192 ISBN-13: 978-8183165198.

- 2. Marta, A. (2011). Media-ICT. Acter. 1st edition, ISBN-8492861029, 335p.
- 3. Guntasha, K.T. and Madan, N. (2022). Media and Communication: A Handbook of Students. Worldview Publications.ISBN-10:9382267999 ISBN-13:978-9382267997. 368p.

Suggested e-books

- Ben Frain. (2012). Responsive Web Design with HTML5 and CSS3. https://www.packtpub.com/product/responsive-web-design-with-html5-and-css3/9781849693189
- Jon Duckett. (2011). HTML & CSS design and build websites. https://www.pdfdrive.com/html-css-webskinze9599066.html
- Keith Silvas. Beginner's Photography Book: An introduction to digital photography and related terminology. Kindle Edition. https://www.amazon.in/Beginners- Photography-Book-introductionterminology-ebook/dp/B017GUJC32

Suggested Websites

- 1. https://in.indeed.com/career-advice/career-development/what-is-full-form-of-ict
- 2. https://static.vikaspedia.in/media/files_en/e-governance/national-e-governance-plan/it-policy uttarakhand.pdf
- 3. https://pinnguaq.com/learn/introduction-to-sound-design-and-a-digital-audio-workshop/https://enterslice.com/it-enabled-services

DEPARTMENT OF EXTENSION EDUCATION & COMMUNICATION MANAGEMENT

Course Title : Technology Transfer and Management

Course Number : HEE 602 Pre-requisite:

Nil Credit Hours : 3 (1-0-2)

Why this Course?

Technology transfer is the process of transferring skills and knowledge of a proven technology to users for application to enhance and sustain qualitative life. It is the mandate of agricultural universities to ensure that scientific and technological developments are accessible to a wider range of users who can then further develop and exploit the technology into new products, processes, applications, materials or services. On the other hand, the importance of technology transfer has been increasing with the growing need for modern technologies, innovation, inventions and R&D. In this context, it is pertinent to provide adequate skill and knowledge to the students in transfer of technology and management.

Aim of the Course

- 1. To acquaint students with the process of Technology Transfer and Management (TTM)
- 2. To provide hands-on-experience in TTM
- 3. To sensitise students towards technology transfer career.

Catalogue Description

UNIT I: Introduction to technology transfer

Transfer of technology - Definition and importance; models of technology transfer - different models, qualitative technology transfer models, dimensions of technology transfer, features of technology package, routes of technology transfer; FLD, OFT, minikits.

UNIT II: Technology acquisition

Technology acquisition- Alternatives for acquiring new technologies; reasons; management of acquired technology; measures of scale and mechanisms for acquiring technologies - economy of scale, levels of scale, measurement of scale, factors affecting the choice of scale.

UNIT III: Introduction to technology management

Concept and meaning of technology management; evolution and growth of technology management.

UNIT IV: Role and significance of technology management

Impact of technology on society; technology and competition; key issues in managing technological innovation, forms of technology - product and process technologies;

technology forecasting - methods and principles; role of government in technology management.

UNIT V: Technological change

Characteristics of technological change; classification of technological change; impact of technological change; technology life cycle; technology transformation; technology policies and policy instruments.

UNIT VI: Technology assessment

Technology choice; technology assessment and refinement; technology assessment process; technology leadership and followership; writing technology assessment report.

UNIT VII: Invention, innovation and creativity

Meaning and differences; innovation management; intellectual property management.

UNIT VIII: Technology adoption, diffusion, and absorption

Technology adoption, diffusion and absorption; role of technology absorption - benefits, constraints in technology absorption, technology package and technological dependence, Indian experience in technology absorption efforts, issues involved in the management of technology absorption and government initiatives.

UNIT IX: Development of technology

Development process and steps; technology development and competition; managing Research & Development (R & D); reforms in technology development.

UNIT X: Social issues in technology management

Technological change and industrial relations; implementation of rationalization and automation in India.

Lecture Schedule

SI. No.	Lecture Topics	No. of classes
1.	Introduction to technology transfer - Transfer of technology models, traditional technology transfer models, qualitative technology transfer models, dimensions of technology transfer, features of technology package, routes of technology transfer; FLD, OFT, minikits.	1
2.	Technology acquisition - Technology acquisition, alternatives and reasons for acquiring new technologies, management of acquired technology, measures of scale and mechanisms for acquiring technologies, economy of scale.	1
3.	Technology acquisition - levels of scale, measurement of scale factors affecting the choice of scale; introduction to technology management - concept and meaning of technology management, evolution and growth.	1
4.	Role and significance of technology management, impact of technology on society; technology and competition; key issues in managing technological innovation.	1

5.	Forms of technology- Product and process technologies, technology forecasting- methods and principles.	1
6.	Role of government in technology management, technological change - characteristics and classification of technological change.	1
7.	Technological change - Impact of technological change, technology life cycle, technology transformation, technology policies and policy instruments.	1
8.	Technology assessment - Technology choice, technology assessment process, technology leadership and followership.	1
9.	Technology assessment - Reporting technology assessment - method, invention, innovation and creativity - meaning and differences.	1
10.	Invention, innovation and creativity - Innovation management, intellectual property management.	1
11.	Technology adoption, diffusion, and absorption - Technology adoption, diffusion and absorption, role of technology absorption- benefits.	1
12.	Technology adoption, diffusion, and absorption - Constraints in technologyabsorption, technology package and technological dependence.	1
13.	Technology adoption, diffusion, and absorption - Indian experience in technology absorption efforts, issues involved in the management of technology absorption and government initiatives.	1
14.	Development of technology - Development process and steps, managing Research & Development (R & D).	1
15.	Development of technology - Technology development and competition; reforms in technology development.	1
16.	Social issues in technology management - Technological change and industrial relations, Implementation of rationalization and automation in India.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI. No.	Practical	No. of classes
1.	Enlisting of technologies already transferred under five	1
	disciplines/	
	research project.	

2.	Selection of technologies for observation of change attained and preparation of observation schedule	1
3.	Filed visit and interaction with clientele to collect data	1
4.	Filed visit and interaction with clientele to collect data	1
5.	Filed visit and interaction with clientele to collect data	1
6.	Analysis of data and preparation of report	1
7.	Presentation of report	1
8.	Group discussion on technology refinement/ sustainability issues	1
9.	Enlisting and description of technologies transferred by the	1
	concerned	
	scientist/s during the semester	
10.	Description of invention, innovation and creativity of the selected	1
	technology	_
11.	Description of transfer of technology model	1
12.	0 1	2
13.	5	1
14.		2
	technology	
15	transfer Execution of work plan as per time line	1
15.		1
16.	Preparation of report on technology transfer	1
	Presentation of report	1
19.	•	1
19.	Enlisting of technologies already transferred under five disciplines/	1
	research project.	
20.	Selection of technologies for observation of change attained and	1
	preparation of observation schedule	•
21.	Filed visit and interaction with clientele to collect data	1
22.	Filed visit and interaction with clientele to collect data	1
23.	Filed visit and interaction with clientele to collect data	1
24.	Analysis of data and preparation of report	1
25.	Presentation of report	1
26.	Group discussion on technology refinement/ sustainability issues	1
27.	Enlisting and description of technologies transferred by the	1
	concerned	
	scientist/s during the semester	
28.	Description of invention, innovation and creativity of the selected	1
	technology	
29.	Description of transfer of technology model	1
30.	Design and development of transfer of technology process	1
	Lab final Examination	1
	Total	33

Learning Outcomes

After successful completion of the course, the students will be able to:

- 1. Comprehend technology transfer perspectives
- 2. Select and execute technology in accordance with the needs of community
- **3.** Practice the management process
- **4.** Analyse the stages of technology adoption, diffusion and absorption
- **5.** Write the report on TTM

Teaching Methods / Activities

- Lectures
- Assignment
- Guest lectures
- Student"s presentation

Suggested Readings

- 1. Ainzelt and Jan Hilton. (1999). Technology Transfer: From Invention to Innovation. Springer Science & Business Media, Kluwer Academic Publishers.
- 2. Albert E Muir. (2005).The Technology Transfer System: Inventions- Marketing-Licensing- Patenting- Setting- Practice- Management- Policy. Latham book publishing. ISSBN: 0965759768.
- 3. Ali Hussein Saleh Zolai. (2012). Knowledge and Technology Adoption, Diffusion, and Transfer: International Perspective. University of Bahrain, Bahrain ISBN13: 9781466617520.
- 4. Avid, B. Audretsch Erik E, Lehmann, Albert N. and Link Alexander Starnecker (2012). Technology Transfer in a Global Economy. Springer Science & Business Media, ISBN 146146102.
- 5. Thomas, J. Allen (1984). Managing the Flow of Technology. Edition III, Massachusetts Institute of Technology, ISBN 0262510278.
- 6. International Journal of Technology Transfer and Commercialisation. Interscience Publishers, Genèva.

Suggested e-books

 Gerardus Blokdy.(2018). Technology Life Cycle A Clear and Concise Reference. https://www.amazon.in/Technology-cycle-Clear-Concise-Referenceebook/dp/B07CVSMJYQ

Suggested Websites

- 1. https://egyankosh.ac.in/bitstream/123456789/11867/1/Unit-8.pdf
- 2. https://www.scribd.com/doc/41424846/Introduction-to-Technology-Management
- 3. http://amjadalikhancollege.edu.in/wp-content/uploads/2020/07/tech_forecasting.pdf
- 4. https://egyankosh.ac.in/bitstream/123456789/11783/1/Unit-17.pdf
- 5. https://egyankosh.ac.in/handle/123456789/4924?

DEPARTMENT OF EXTENSION EDUCATION & COMMUNICATION MANAGEMENT

Course Title : Dynamic Communication Skills

Course Number : HEE 603 Pre-requisite:

Nil Credit Hours : 3 (1-0-2)

Why this Course?

Academic success and career achievement depends much on communication and presentation skills. As master"s student, the individual is expected to analyse, prepare and present the content in the class room, conferences and seminars and also write technically and scientifically. Hence dynamic communication includes both oral and written communication. This course builds awareness, understanding and framework for skill development in the qualities and attributes of presentational formats. This involves the voice and the body when used together with technologies to present ideas and concepts that not only inform but also seek to persuade and motivate.

Aim of the Course

- 1. To develop competency of students in effective oral communication skills.
- 2. To develop skills in science communication
- 3. To understand corporate and business communication.

Catalogue Description

UNIT I: Need and importance of communication in present context

Types of communication skills - Verbal, non-verbal and written communication; Types of corporate and business communication skills - oral presentations, group discussions, facing interviews, email, memos, business letters, blogs, inter office memorandums, report writing; hard and soft skills; difference between hard and soft skills.

UNIT II: Scientific communication

Meaning; need and importance; fora of scientific writing - conference, seminar, symposium, workshop and colloquia; writing for scientific journals; thesis writing and writing articles for popular media; farm journalism and its importance in agriculture and allied sectors; science communication and formats for scientific writing; writing for scientific journals and their ratings; NAAS rating; impact factor and h-index; oral and poster presentation; reading and comprehension of - print and audio video media; general and technical articles.

UNIT III: Introduction to public speaking

Types of speeches - persuasive, informative, and motivational or inspirational speech; structuring the speech - introduction, body content and conclusion; effective delivery - voice

modulation, appearance during speeches and delivery; platform performance - posture, gesture, eye contact, emphasis, pause, voice pitch, overcoming fear and anxiety of public speaking; visuals in presentation - type of visuals for public speaking, tips for effective use, computer aided visual presentation, body language.

UNIT IV: Importance of listening

Introduction; listening styles - active and passive, direct and indirect listening, thinking and listening, adjusting listening style to that of speaker, social situations and listening; listening improvement techniques.

Lecture Schedule

SI. No.	Lecture Topics	No. of class es
1.	Need and importance of communication in present context - Types of communication skills - verbal, non-verbal and written communication.	1
2.	Types of corporate and business communication skills - Oral presentations, group discussions, facing interviews, e-mail, memos, business letters, blogs, inter office memorandums, report writing.	1
3.	Hard and soft skills; difference between hard and soft skills.	1
4.	Scientific communication - Meaning; need and importance; fora of scientific writing - conference, seminar, symposium, workshop and colloquia.	1
5.	Writing for scientific journals, thesis writing and writing articles for popular media.	1
6.	Farm journalism and its importance in agriculture and allied sectors.	1
7.	Science communication and formats for scientific writing; writing for scientific journals and their ratings; NAAS rating; impact factor and h- index; oral and poster presentation.	1
8.	Reading and comprehension of - Print and audio video media; general and technical articles.	1
9.	Introduction to public speaking – Types of speeches - persuasive, informative and motivational or inspirational speech.	1
10.	Structuring the speech - Introduction, body content and conclusion; effective delivery- voice modulation, appearance during speeches and delivery.	1
11.	Platform performance - posture, gesture, eye contact, emphasis, pause, voice pitch, overcoming fear and anxiety of public speaking.	1

12.	Visuals in presentation - types of visuals for public speaking.	1
13.	Tips for effective use of visuals, computer aided visual presentation, body language.	1
14.	An introduction to importance of listening.	1
15.	Listening styles - Active and passive, direct and indirect listening, thinking and listening.	1
16.	Adjusting listening style to that of speaker, social situations and listening; listening improvement techniques.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI.	Practical	No.
No.		of
		class
		es
1.	Orientation to NAAS rated journals related to respective discipline	1
2.	Enlisting relevant national and international journals	1
3.	Exercise on writing a review article on given topics	1
4.	Presentation of the topic	1
5.	Exercise on writing popular articles for newspapers, magazines	2
	and	
	farm journals in english	
6.	Presentation and group discussion	1
7.	Exercise on writing popular articles for newspapers, magazines	1
	and	
	farm journals in vernacular language	
8.	Presentation and group discussion	1
9.	Exercise on writing thesis in UAS format	1
10.	Presentation and group discussion	1
11.	Exercise on numbers, units, abbreviations and nomenclature	1
12.	Presentation and group discussion	1
13.	Scientific style and use of english in research paper	1
14.	Presentation and group discussion	1
15.	etiquettes	1
16.	Presentation and group discussion	1
17.	Exercise on listening skills	1

18.	Presentation and group discussion	1
	Exercise on presentation skills	1
	Presentation and group discussion	1
	Exercise on writing for radio	1
	Presentation and group discussion	1
23.	Message preparation for SMS	1
24.	Practice on modalities of SMS dissemination	1
	Presentation and group discussion	1
26.	Learning skills of indexing, footnote and bibliographic procedures	1
	Presentation and group discussion	1
28.	Tips for public speaking	1
29.	Exercise on public speaking	1
30.	Organising public speaking- impromptu, extemporaneous,	1
	manuscript	
	and memorized	
31.	Evaluation of public speaking	1
	Lab final Examination	1
	Total	33

After successful completion of the course, the students will be able to:

- 1. Understand the importance of communication skills for goal achievement
- 2. Differentiate scientific writing from other writings
- 3. Write for different contexts and different media
- 4. Organise and present public speaking
- 5. Recognise the importance of NAAS rating for professional career

Teaching Methods / Activities

- Participatory lectures
- Assignment
- Simulation exercises
- Group discussions
- Organise public speaking
- Students" presentation

Suggested Readings

- 1. D'Souza, Y.K. (2000). Encyclopedia of Advanced Journalism. Vols. I-III. Anmol Publications. New Delhi.
- 2. Khan, P.M. (2002). Textbook of Extension Education. Himanshu Publications, New Delhi.
- 3. Lamerton, J. (2001). Everything You Need to Know Public Speaking. Harper Collins, Glasgow.
- 4. Ravindran, R.K. (1999). Hand Book of Reporting and Editing. Anmol Publications. ISBN:9789353142285.
- 5. Ray, G.L. (2011). Extension Communication and Management. Kalyani Publishers, 8th edn. Ludhiana.

Suggested e-books

- Alan Barker. (2010). Improve Your Communication Skills: Present with Confidence; Write with Style; Learn Skills of Persuasion. https://www.pdfdrive.com/improve-your-communication-skills-present-with-confidence-write-with-style-learn-skills-of-persuasion-e156963640.html
- Margaret Greenhall.(2010). Report writing skills training course. How to write a report and executive summary, and plan, design and present your report. https://www.pdfdrive.com/report-writing-skills-training-course-how-to-write-a-report-and-executive-summary-and-plan-design-and-present-your-report-an-easy- format-for-of-exercises-and-free-downloadable-workbook-e178505258.html
- 3. J H Hood.(2013). How to Book of Writing Skills: Words at Work: Letters, email, reports, resumes, job applications. https://www.pdfdrive.com/how-to-book-of-writing-skills-words-at-work-letters-email-reports-resumes-job-applications-plain- english-e157404675.html
- 4. Whitmell Clare. (2005). Business Writing Essentials: How To Write Letters, Reports and Emails. https://www.pdfdrive.com/business-writing-essentials-how-to-write-letters-reports-and-emails-e200409070.html
- 5. Paul Newton and Helen Bristoll. Active Listening. http://www.free-management-ebooks.com/dldebk/dlcm-active.html

- 1. https://www.enago.com/thesis-editing/blog/how-to-write-science-thesis-dissertation
- 2. https://www.indeed.com/career-advice/career-development/types-of-speeches
- 3. https://sites.pitt.edu/~gveser/Ethics/HowToGiveAPresentation.pdf
- https://businessandpublicspeaking.in/2020/10/26/voice-modulation-importanceand-tips/

Course Title : Climate Change Management

Course Number : HEE 604 Pre-requisite:

Nil Credit Hours : 2 (1-0-1)

Why this Course?

Geographically, every community is facing numerous challenges due to changes in the climate. This course provides students to address such challenges covering adaptation and mitigation solutions across a wide range of sectors and regions, with special reference to domestic management practices. It provides an opportunity to get exposed to climate change policies and prepares for climate change communication. It also creates a research question, gather and analyse data, and share findings academically and in lay terms.

Aim of the Course

- 1. To conversant students with CCM (Climate Change Management) and equip with managerial skills at home level
- 2. To generate interest for climate communication to cope up with climate changes.

Catalogue Description

UNIT I: Basics of climate and climate change

Introduction to climate and climate change - Definition and meaning; climate change classification; method of classification; general concept of environmental science; natural and manmade causes of climate change; affects for climate change; consequences risks and uncertainty of climate change; climate system; major predictions.

UNIT II: Greenhouse gases and global warming

Major greenhouse gases and sources; global warming effect and causes, responses to global warming; different views on greenhouse gases and global warming natural resource management; solid waste management; biodiversity; alternative livelihood security; drought prone technologies.

UNIT III: Climate change Impacts

Impacts on biodiversity - wetland, forest, agriculture, transportation, coastal area, water resources; global, national and regional impacts; vulnerability assessment; climate modeling.

UNIT IV: Climate change policy

Introduction; various policies in India; national action plan; sector specific policies and policies instruments; environment impact assessment; environment planning and management; climate resilient technology.

UNIT V: Climate change communication

Introduction - definition, perspectives and importance; engaging climate change communication; audiences; frames; values and norms.

UNIT VI: Visual communication on climate impacts and solutions

Theories of visual perception; classification and selection of visuals.

UNIT VII: Advocacy and communicating global climate action

National, international advocacy groups and organisations; strategies and programmes.

UNIT VIII: Role of stake holders

Media; scientific experts; policymakers; and academic institutions on climate change communication.

Lecture Schedule

SI. No.	Lecture Topics	No. of class es
1.	Basics of climate and climate change - Introduction to climate and climate change, climate change classification, method of classification.	1
2.	General concept of environmental science, natural and man made causes of climate change.	1
3.	Effects of climate change, consequences, risks and uncertainty of climate change.	1
4.	Climate system and major predictions.	1
5.	Greenhouse gases and global warming - Major greenhouse gases and sources. Global warming effect and causes, responses to global warming.	1
6.	Different views on greenhouse gases and global warming; natural resource management; solid waste management.	1
7.	Biodiversity; alternative livelihood security using drought prone technologies. Climate change impacts - Impacts on biodiversity - wetland, forest, agriculture and transportation.	1
8.	Impact on biodiversity- coastal area, water resources; global, national and regional impacts.	1
9.	Vulnerability assessment; climate modeling. Climate change policy-introduction, various policies in India.	1
10.	National action plan, sector specific policies and policy instruments for climate change.	1

11.	Environment impact assessment; environment planning and	1
	management.	
12.	Climate resilient technology. Climate change communication – introduction, definition, perspectives and importance.	1
13.	Engaging climate change communication, audiences, frames, values and norms.	1
14.	Visual communication on climate impacts and solutions - Theories of visual	1
	perception; classification and selection of visuals.	
15.	Advocacy and communicating global climate action-national international	1
	advocacy groups and organizations; strategies and programmes.	
16.	Role of stake holders – media; scientific experts, policymakers and academic institutions on climate change communication.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI. No.	Practical	No. of class es
1.	Visit to Climate management organization to understand strategies and observe the impacts	1
2.	Identification of climate management needs at home level and development of suitable technology- Apparel and Textiles	1
3.	Identification of climate management needs at home level and development of suitable technology- Food and Nutrition	1
4.	Identification of climate management needs at home level and development of suitable technology- General health	1
5.	Identification of climate management needs at home level and development of suitable technology-domestic appliances and arrangements	1
6.	Identification of climate management needs and development of suitable technology- Children and senior citizens.	1
7.	Identification of climate management needs and development of suitable technology- differently able	1
8.	Preparation of climate communication media – print	2
9.	Preparation of climate communication media – radio	1
10.	Preparation of climate communication media – video	1
11.	Preparation of climate communication media – blog/web writing	1
12.	Exhibition on climate change management	1

13.	Visit to climate management organization to understand	1
	strategies	
	and observe the impacts	
14.	Identification of climate management needs at home level and	1
	development of suitable technology- Apparel and Textiles	
15.	Identification of climate management needs at home level and	1
	development of suitable technology- Food and Nutrition	
	Lab final Examination	1
	Total	17

After successful completion of the course, the students will be able to:

- Comprehend climate change affects species, societies and ecosystems and the consequences these changes can have on natural systems
- Have advanced knowledge about national and international climate policy and its application
- Knowledge of how the society can transform energy production and use in a more environmentally friendly direction
- Advanced knowledge of strategies, actions and tools for adapting to climate change and reducing greenhouse gas emissions at national and global level
- Critically assess different sources of information and use them to structure and develop an academic argument
- Identify climate management needs and prepare communication media products on versatile issues

Teaching Methods / Activities

- Lectures
- Assignment
- Field visit
- Product making
- Students" presentation

Suggested Readings

- 1. Gopal, B. (2004). Global Warming and Climate Changes: Transparency and Accountability. 3 ISBN-10: 8182050782 ISBN-13: 978-8182050785
- 2. Kandarp, T.P. and Vaishnav. (2018). Climate Change Solutions, Global Warming Solutions & Innovative Ideas for Construction of World Development. Notion Press; 1st edition ISBN-10: 1643241818 ISBN-13: 978-1643241814
- 3. Lenka, S. and Lenka, N.K. (2013). Climate Change and Natural Resources Management. New India Publishing Agency ISBN-10: 9789381450673 ISBN- 13:

978-9381450673

4. Mom, L. and Pin, M. (2010). Education Sector Responses to Climate Change Background Paper with International Examples. UNESCO, Bangkok, Asia and Pacific Regional Bureau for Education, Bangkok, Thailand.

Suggested e-books

- 1. Paul, J.J. Welfens. (2002). Global Climate Change Policy: Analysis, Economic Efficiency Issues and International Cooperation. Global Climate Change Policy: Analysis, Economic Efficiency Issues and International Cooperation Springer Link
- 2. Stephen, R.J. Sheppard. (2012). Visualizing Climate Change :A Guide to Visual Communication of Climate Change and Developing Local Solutions. https://doi.org/10.4324/9781849776882
- 3. Mark, M (2009) Global Warming: A Very Short Introduction. ISBN-10: 0199548242 ISBN-13: 978-0199548248 http://envfor.nic.in/e-books
- 4. Climate Change: Impacts, Vulnerabilities and Adaptat.ion in Developing Countries https://unfccc.int/resource/docs/publications/impacts.pdf

- https://www.un.org/en/climatechange/what-is-climatechange#:~:text=Climate%20change%20refers%20to%20long,like%20coal%2C%20oil% 20and%20gas.
- 2. https://byjus.com/free-ias-prep/world-climate-and-climate-change-upsc-geography-notes/
- 3. https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions#:~:text=Carbon%20dioxide%20(CO2)%20makes,natural%20gas%2C%20to%20produce%20electricity.
- 4. https://byjus.com/biology/solid-waste-management/
- 5. https://www.researchgate.net/publication/252328787_Media_and_Scientific_Commu nica tion A Case of Climate Change
- 6. https://www.iospress.nl/journal/journal-of-climate-change

Pre-requisite: Nil

Course Title : Global Extension Systems

Course Number : HEE 501

Credit Hours : 3 (3-0-

0) Why this Course?

India has the pre and post-independence history of extension programmes. In course of time many changes occurred in policies and plans based on ever changing needs. Based on lessons learned within the country and from other developing countries, all the time new efforts are being made making extension system more strategic. This course provides such information with an analytical perspective of Indian extension system in comparison with other countries over the globe. It will give an opportunity to the students to get an insight into the strengths and weaknesses of each of the system to mould themselves as policy contributors and planners.

Aim of the Course

- 1. To appraise students the perspectives of extension systems in India
- 2. To enable students for comparative analysis of Indian extension systems with other countries
- 3. To acquaint students with the extension systems in ICAR (Indian Council of Agriculture Research) and SAUs (State Agriculture Universities).

Catalogue Description

UNIT I: Orientation to extension systems

Early extension efforts; Indian extension systems - reforms, challenges of extension management in India; paradigm shift in extension systems; extension approaches in view of globalization and market liberalization; privatization of extension services – introduction, scope, advantages, limitations and experiences; decentralization of extension systems; revolution in extension systems.

UNIT II: Governance and extension systems

Indian governance and role of extension systems - retrospection on Indian governance; role of extension systems; ministries - rural development, agriculture, science and technology, human resource development, health, industries, education and women and child development; non government organization collaboration; review of five year plans.

UNIT III: ICAR extension system

History; extension system; organisational structure; policy issues; existing extension systems and challenges; national and regional institutions - vision, objectives, activities, innovations,

programmes; extension systems in SAUs - organisational structure, personnel, roles, innovations; SWOT analysis.

UNIT IV: Extension management and training organisations and institutions

FAO, IFAD (International Fund for Agricultural Development), IFRI (International Forestry Resources and Institutions), WFO (World Farmer's Organizations), WHO, *Bioversity International*, MANAGE, NIRD, (NIAM), NAARM, EEI, SAMETI, FTC.

UNIT V: Comparative analysis of extension systems

India with USA, UK, Israel, China, Pakistan, Bangladesh, Japan, Italy, South Africa, Indonesia, Philippines and Brazil - History, approaches, organizational structure, methodology, services, problems and research linkages.

Lecture Schedule

SI.	Lecture	No. of
no.	topics	classe
		S
1.	Early extension efforts, Indian extension systems – Reforms, challenges of	3
	extension management in India, paradigm shift in extension systems.	
2.	Extension approaches in view of globalization and market liberalization,	3
	privatization of extension services - Introduction, scope, advantages and limitations.	
3.	Privatization of extension services – Experiences, decentralization and	3
	revolution of extension services.	
4.	Retrospection on Indian governance, role of extension system, Ministry of	4
	Rural Development, Ministry of Agriculture and Farmers Welfare.	
5.	Ministries of science and technology, human resource development and	2
	industries.	
6.	Ministry of women and child development, ministry of health and family welfare.	2
7.	NGO collaboration; review of five year plans.	2
8.	History of extension systems in ICAR organisational structure; policy issues;	4
	existing extension systems and challenges; national and regional extension institutions – vision and objectives.	
9.	National and regional extension institutions - Programmes and activities,	3
	National and regional extension institutions- Innovations and interventions,	
	National and regional extension institutions- case studies and success stories.	

10.	Extension systems in SAUs - Organisational structure, personnel and	3
	roles, Extension systems in SAUs – Role of extension in academic,	
	research and	
	training activities; innovative extension systems in SAUs- case studies.	
11.	SWOT analysis of extension systems in SAUs. Extension	3
	management and	
	training organizations and institutions- FAO, IFAD, IFRI, WFO (World	
	Farmers" Organisation) and WHO.	
12.	Bioversity International, MANAGE, NIRD.	2
13.	NIAM, NAARM, EEI, SAMETI, IFPRI and FTC	3
14.	Analysis of extension systems- India with USA, UK - History,	3
	approaches,	
	organizational structure, methodology, services, problems and research	
	linkages.	
15.	Analysis of extension systems of India with Israel, China, Pakistan and	4
	Bangladesh- History, approaches, organizational structure,	
	methodology, services, problems and research linkages. India with	
	Japan, Italy - History, approaches, organizational structure,	
	methodology, services, problems and	
	research linkages.	
16.	Comparative analysis of extension systems of India with South Africa,	4
	Indonesia, Philippines and Brazil - History, approaches, organizational	
	structure, methodology, services, problems and research linkages.	
	Pre final Examinations	2
	Total	50

After successful completion of the course, the students will be able to:

- 1. Comprehend different national and other global extension systems and their focus areas
- 2. Compare and analyse the differences in extension systems between nations in terms of their approaches and priorities
- 3. Explain extension systems in ICAR and SAUs
- 4. Conceptualise the challenges in execution of extension systems.

Teaching Methods / Activities

- Lectures
- Assignment
- Students" presentation

Group discussion

Suggested Readings

- 1. Salahuddin, A. and Magor, N.P. (2005). Innovations in Rural Extension: Case Studies from Bangladesh. CABI Publishing, Wallingford, UK.
- 2 Sagar, M, (2013). Text Book of Agricultural Extension with Global Innovations. Kalyani Publishers, Ludhiana, ISBN: 978-93-272-2877-9.
- 3. Sangeet, G. and Mithilesh, V. (2011). Global Extension Systems: A Textbook. New Academic Publications ISBN-10: 8186772464 ISBN-13: 978-8186772461.
- 4. Singh, K.K. et.al. (2015). Agricultural Extension Explorer. Kalyani Publishers, Ludhiana.
- 5. Global Approaches to Extension Practice: A Journal of Agricultural Extension
- 6. International Journal of Agricultural Extension
- 7. Indian Research Journal of Extension Education published by Society for Extension Education, Agra

Suggested e-books

- 1. Paul Newton and Helen Bristoll .SWOT analysis. http://www.free-management-ebooks.com/dldebk/dlst-swot.html
- 2. Charles Clift.(2013). The Role of the World Health Organization in the International System. https://www.chathamhouse.org/sites/default/files/publications/research/2013-02-01-role-world-health-organization-international-system-clift.pdf
- Pablo Ruiz.(2021). The World Health Organization. https://www.scribd.com/book/540179138/The-World-Health-Organization

- 1. https://www.slideshare.net/KamleshDhawal1/extension-system-in-india
- 2. http://agropedia.iitk.ac.in/content/privatization-extension
- 3. https://www.cabdirect.org/cabdirect/abstract/20193337888
- 4. https://www.slideshare.net/aakashhatwal/review-of-five-year-plan-of-india
- 5. https://www.slideshare.net/yagneshsondarva/extension-system-of-icar-saus
- 6. https://www.slideshare.net/RashmiDurgapal/rashmi-usa-presentation
- 7. Cheng, Fu. *et al.* (2016). Current Status of Agricultural Extension in China. https://journals.ashs.org/horttech/view/journals/horttech/26/6/article-p846.xml.

Pre-requisite: Nil

Course Title : Development

Communication Course Number: HEE 502

Credit Hours : 3 (2-0-1)

Why this Course?

Globally, development communication is an approach for sustainable growth in versatile areas of quality life. Communication refers to the use of different types of media for the process of development, while development refers to the process of betterment of a society. Students specializing in Extension Education & Communication Management

play multiple roles in the process of addressing various development issues pertaining to sustainable development goals, which the globe is looking at. This course imparts knowledge and skill to communicate responsive information aiming at feedback. The scope of innovation, creativity and continuity motivates students to make public programmes and policies real, meaningful and sustainable.

Aim of the Course

- 1. To familiarize students with global perspective of development communication issues
- 2. To impart analytical skills with regard to the process of development communication
- 3. To understand the role and use of media in attaining sustainable development goals.

Catalogue Description

UNIT I: Overview of development communication- Hypothetical concepts and theories-Press theories

Normative - Authoritarian, libertarian, social responsibility, democratic participant theory; sociological - uses and gratification, agenda setting; two-step flow; psychological; bullet theory; theories of persuasion and advocacy; critical theory of Frankfurt school; attitude change theories; political economy theory; critical cultural theory of Birmingham school and framing theory.

UNIT II: National and international perspectives of development communication

National and international perspectives; evolution of development communication concept; government and non-government initiatives; government and non-government organisations - FAO, UNDP, WHO, UNICEF, CARE and strategies.

UNIT III: Millennium Development Goals (MDGS) and Sustainable Development Goals (SDGs)Achievements of MDGs - analytical review and recommendations; SDGs - document, vision and objectives; targets and strategies for implementation.

UNIT IV: Research perspectives of development communication

Emerging issues; measurable variables of development communication; existing research projects; research lag and supporting organisations.

UNIT V: Media initiatives for development communication:

Conventional and contemporary media technologies; globalisation and media convergence; ethical issues and media impact analysis.

Lecture Schedule

SI.	Lecture	No. of
No.	topics	classe
1.	Overview of development communication- Introduction to hypothetical	s
1.	concepts,	2
	theories, press theories, normative – Authoritarian.	
2.	Libertarian and social responsibility theories.	2
3.	Democratic participant theory, sociological - uses and gratification	2
4.	Agenda setting and two-step flow theory.	1
5.	Psychological and bullet theory.	2
6.	Theories of persuasion and advocacy; critical theory of Frankfurt school.	2
7.	Attitude change theories, political economy theory.	2
8.	Critical cultural theory of Birmingham school and framing theory. National and	3
	international perspectives of development communication -	
	evolution of development communication concept.	
9.	Government and non-government initiatives; organisations and strategies –	2
10.	FAO. Organisations and strategies – UNDP and WHO.	2
11.	Organisations and strategies – UNICE F and CARE.	2
12.		2
12.	Millennium Development Goals (MDGs) and Sustainable Development Goals	2
	(SDGs) - Achievements of MDGs - analytical review and recommendations.	
13.	SDGs - Document, vision and objectives of SDGs.	1
14.	MDGs and SDGs- Targets and strategies for implementation. research	2
	perspectives of development communication - Emerging issues and	
	measurable variables of development communication.	
15.	Existing research projects; research lag and supporting organizations.	3
	Media initiatives for development communication - Conventional and	
	contemporary media technologies, globalization and media convergence.	
16.	Mass media and ethical issues; mass media impact analysis.	2
	Pre final Examinations	02
	Total	34

Practical Schedule

SI. no.	Practical	No. of class es
1.	Research review on hypothetical concepts and theories of development communication	1
2.	Presentation on hypothetical concepts and theories of development communication	1
3.	Critical analysis of Sustainable Development Goals (SDGs)	1
4.	Report writing and presentation on critical analysis of SDGs	1
5.	Case study preparation focusing national and international organisation efforts for development communication.	2
6.	Presentation of national and international organisation efforts	1
7.	Critical review on ongoing development communication research projects respective to SAUs	1
8.	Presentation on ongoing development communication research projects	1
9.	Interaction with personnel and consumers of development communication projects and group discussion.	1
10.	Interaction with personnel and consumers of development communication projects and group discussion.	1
11.	Selection of contemporary media for development of communication issue, dissemination through existing channels of respective SAUs	1
12.	Analysis of contemporary media for development of communication issue	1
13.	Selection of contemporary media for development of communication issue, dissemination through existing channels of respective SAUs	1
14.	Analysis of contemporary media for development of communication issue	1
15.	Presentation of media analysis of the issue	1
	Lab final Examination	1
	Total	17

Learning Outcomes

After successful completion of the course, the students will be able to:

- 1. Comprehend the theories and perspectives of development communication
- 2. Critically analyse SDGs in terms of niche research in development communication

- 3. Understand the process of development communication in various national and international organizations
- 4. Recognise the efforts of SAUs for development communication
- 5. Plan and disseminate communication media on development issues

Teaching Methods / Activities

- Lectures
- Assignment
- Publication Review
- Simulation exercise
- Media development and transmission
- Student presentation

Suggested Readings

- 1. Huesca, R. (2003). Participatory Approaches to Communication for Development. In Mody, B. (ed.) International and Development Communication: A 21st Century Perspective. Sage Publications, California.
- 2. Joshi, Uma.(2013). Understanding Development Communication. Dominant Publications, New Delhi. ISBN 13: 9789380642987.
- 3. Karin G, Wilkins Thomas, T. and Rafael, O. (2014). The Handbook of Development Communication and Social Change. Kindle Publication, ISBN:9781118505311.
- 4. Mefalopulos, P. (2008). Development Communication Sourcebook- Broadening the Boundaries of Communication, The World Bank Publication.
- 5. Mikkelsen and Britha. (2002). Methods for Development Work and Research. Sage Publications, New Delhi.
- 6. Narula and Uma. (2007). Development Communication Theory and Practice. Har-Anand Publication, Ltd. New Dehli.
- Mefalopulos, P. (2008). Development Communication Sourcebook Broadening the Boundaries of Communication Development Communication Sourcebook Broadening the Boundaries of Communication. Washington DC ISBN 978-0-8213-7522-8.
- 8. Servaes, Jan. (2008). Communication for Development and Social Change. Sage Publications, New Delhi.
- 9. Journal of Development Communication. Asian Institute for Development Communication
- 10. Journal of Development & Communication Studies
- 11. Asian Journal of Communication

Suggested e-books

1. A Primer on Communication Studies. (2012). https://2012books.lardbucket.org/books/a-primer-on-

- communication- studies/index.html
- 2. Nunik Maharani Hartoyo, S.Sos. (2010). Globalisation, Convergence and the Media.
 - https://pustaka.unpad.ac.id/wpcontent/uploads/2010/09/globalisation_converge nce_a nd_the_media.pdf
- Srinivas Raj Melkote, H. Leslie Steeves. (2015). Communication for Development: Theory and Practice for Empowerment and Social Justice. https://www.amazon.in/Communication-Development-Practice-Empowerment- Justice-ebook/dp/B017BZJPCK
- Wikibooks contributors. (2010). Communication theory. https://archive.org/details/EbookCommunicationTheory/mode/ 2up
- 5. Srinivas Raj Melkote, H Leslie Steeves. Communication for Development: Theory and Practice for Empowerment and Social Justice. ISBN-13: 978-9351502579.
- 6. Communication for Development: Theory and Practice for Empowerment and Social Justice eBook: Melkote, Srinivas Raj, Steeves, H Leslie: Amazon.in: Kindle Store

- 1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4746946/
- 2. https://testbook.com/learn/millennium-development-goals-and-sustainable- development-goals/
- 3. https://2012books.lardbucket.org/books/a-primer-on-communication-studies/s15- media-technology-and-communica.html
- Carolina Matos. 2012. Mass media and globalization.
 https://www.researchgate.net/publication/276025568_Mass_media_and_globalization/citation/download

Pre-requisite: Nil

Course Title : Participatory Programme Management

Course Number : HEE 503

Credit Hours : 3 (1-0-

2) Why this Course?

In the context of community development, the participatory programme planning and management is a process by which a community undertakes to reach a given socio-economic goal by consciously diagnosing its problems and charting a course of action to resolve those problems. The belief behind participatory programme management is its capability in leading to increased productivity, motivation and quality assurance. This is very essential for students of all disciplines to learn, especially for those who will be undertaking change agent career. This course creates a learning experience for students to develop positive attitude towards management of programme with the participation of people, rather than working in isolation.

Aim of the Course

- 1. To orient the students towards principles, procedure and approaches of Participatory Programme Management (PPM)
- 2. To facilitate application of PPM techniques in field situation.

Catalogue Description

UNIT I: Overview to PPM

Concept; meaning; importance; types of participation in development; advantages and disadvantages of participation by different stakeholders; role of government and non profit organizations in promoting participation; conceptual framework of extension programme planning; objectives; principles and process.

UNIT II: Participatory planning

Concept; importance; process; techniques of participatory planning - RRA, PRA, PLA and their application in extension; approaches of participatory planning - cooperative, democratic, bottom up and top down.

UNIT III: Project management techniques

Administration of the project; concept of professional management - stakeholder analysis, force field analysis, SWOT analysis, logical framework analysis, Project Evaluation and Review Technique (PERT) and Critical Path Method (CPM).

UNIT IV: Monitoring and evaluation

Concept; meaning and importance of monitoring and evaluation; components of monitoring and evaluation - physical, financial, staff performance; technical aspects - output, outcome and

impact; trends in people, s participation in monitoring and evaluation; contribution of Right to Information Act.

Lecture Schedule

SI. no.	Lecture topics	No. of class es
1.	Overview to PPM - Concept, meaning and importance.	1
2.	Types of participation in development.	1
3.	Advantages and disadvantages of participation by different stakeholders.	1
4.	Role of government and non-profit organizations in promoting participation.	1
5.	Conceptual framework of extension programme planning; objectives, principles and process.	1
6.	Participatory planning - Concept, importance and process.	1
7.	Techniques of participatory planning - RRA, PRA, PLA and their application in extension.	1
8.	Approaches of participatory planning - Cooperative, democratic, bottom up and top down.	1
9.	Project management techniques - Administration of the project.	1
10.	Concept of professional management - Stakeholder analysis.	1
11.	Force field analysis and SWOT analysis.	1
12.	Logical Framework Analysis, PERT and CPM.	1
13.	Monitoring and evaluation - Concept, meaning and importance of monitoring and evaluation.	1
14.	Components of monitoring and evaluation - Physical, financial and staff performance.	1
15.	Technical aspects – Output, outcome and impact.	1
16.	Trends in people, s participation in monitoring and evaluation; contribution of Right to Information Act.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI. no.	Practical	No. of class es
1.	Literature survey and research review on different perspectives of PPM	1
2.	Presentation of review reports.	1

3.	Observation of PPM techniques in SHGs (female groups)	1
4.	Observation of PPM techniques in SHG village federations	1
5.	Observation of PPM techniques in SHG mandal/block level federations	1
6.	Observation of PPM techniques in SHG district level federations	1
7.	Observation of PPM techniques in SHGs (male groups)	1
8.	Observation of PPM techniques in watershed management groups	1
9.	Preparation of case study and presentation	1
10.	Preparation of case study and presentation	1
11.	Preparation of case study and presentation	1
12.	Application of PRA methods – Critical analysis of different methods through research review- mapping techniques	1
13.	Application of PRA methods – Critical analysis of different methods through research review- ranking techniques	1
14.	Application of PRA methods – Critical analysis of different methods through research review- transaction techniques	1
15.	Application of PRA methods – Critical analysis of different methods through research review- focus group discussion	1
16.	Application of PRA methods – Critical analysis of different methods through research review- problem analysis	1
17.	Application of PRA methods – Critical analysis of different methods through research review- institutional analysis	1
18.	Preparation and implementation of home improvement work plans	1
19.	Preparation and implementation of home improvement work plans	1
20.	Critical evaluation of work plan	1
21.	Critical evaluation of work plan	1
22.	Application of project management technique- PERT	1
23.	Presentation of feedback on project management technique- PERT	1
24.	Application of project management technique – CPM	1
25.	Presentation of feedback on project management technique – CPM	1
26.	Application of project management technique- SWOT	2
27.	Presentation of feedback on project management technique- SWOT	1
28.	Application of project management technique- stake holder analysis	1

29.	Presentation of feedback on project management techniques- stakeholder analysis	1
30.	Application of project management technique- Logical framework analysis	1
31.	Presentation of feedback on project management technique- Logical framework analysis	1
	Lab final Examination	1
	Total	33

After successful completion of the course, the students will be able to:

- 1. Understand the underlying perspectives of PPM
- 2. Realise the importance of PPM for sustainable achievement
- 3. Acquire skill in observation of PPM techniques applied in different situations
- 4. Plan, apply and analyse PPM techniques and write reports

Teaching Methods / Activities

- Participatory lectures
- Assignment
- Simulation exercises
- Group discussions
- Preparation of work plans
- Publication Review
- Students" presentation

Suggested Readings

- 1. Elizaphan, N. (2015). Project Monitoring and Evaluation: Tools and Techniques. Kindle Edition, Ekon Publishers.
- 2. J. Agril. Res. Innov. & Tech. 3 (2): 72-78, December, 2013
- 3. Koen K, Maartjede, G. and Louise, B. (2016). Participatory Planning, Monitoring and Evaluation of Multi-stakeholder Platforms in Integrated Landscape Initiatives. (Working Paper).
- 4. Nabhi. (2005). Handbook for NGOs: An Encyclopaedia for Non-government Organisations and Voluntary. Agencies Vol1. Nabhi Publications, New Delhi.
- 5. Rory, B. (2014). Project Management: Planning and Control Techniques.5th Edition. Wiley publishers, New York. ISBN: 978-111866-0928
- 6. Uddin, M.N. and Anjuman, N. (2013). Participatory rural appraisal approaches: an overview and an exemplary application of focus group discussion in climate change adaptation and mitigation strategies. ISSN: 2224-0616.
- 7. Team FME SWOT Analysis Strategy Skills ISBN 978-1-62620-951

Suggested e-books

- 1. Paul Newton and Helen Bristoll .SWOT analysis. http://www.free-management-ebooks.com/dldebk/dlst-swot.html
- Ibrahim Osama. Handbook for monitoring and evaluation. https://www.measureevaluation.org/resources/training/capacity-building-resources/basic-me-concepts portuguese/IFRC Monitoring%20and%20Evaluation%20handbook.pdf
- 3. Frankel N, Gage A. (2016). M&E Fundamentals: A Self-Guided Minicourse [EPUB edition]. https://www.measureevaluation.org/resources/publications/ms-07-20-en-epub.html
- 4. N. Narayanasamy. Participatory Rural Appraisal: Principles, Methods and Application. https://www.amazon.in/Participatory-Rural-Appraisal-Principles- Application-ebook/dp/B07FFW8PSJ

- 1. https://www.fao.org/3/ad346e/ad346e06.htm#
- 2. https://egyankosh.ac.in/bitstream/123456789/9493/1/Unit-2.pdf
- 3. http://nirdpr.org.in/nird_docs/sb/sb080720.pdf
- 4. https://www.proofhub.com/articles/project-management-tools-and-techniques
- 5. http://www.ijarit.webs.com
- 6. https://www.researchgate.net/publication/311100782.
- 7. http://www.burkepublishing.com/component/%20content/article.html?id=16
- 8. http://www.free-management-ebooks.com/dldebk/dlst-swot.htm

Pre-requisite:

Nil Course Title : Organizational Development and Human Resource Development

Course Number : HEE 504

Credit Hours : 2 (1-0-

1) Why this Course?

Every organization caters to the needs of its customers. The best corporate thinking is leading the institution towards success by means of simplified processes and models. There are many frameworks and models available towards which the students are to be exposed to critically analyse the best means. The contemporary Human Resource Development (HRD) trends and process provide students professional skills in capacity building and employee motivation programme planning. Beyond this, the students as employees in any organization in future endeavors can be professionals as they acquire technical skills in identifying the required deliverables for the company.

Aim of the Course

- 1. To orient students with organizational development and provide diagnostic skills in HRD process.
- 2. To make students capable of applying the principles and techniques as professionals for developing human resources in an organization.

Catalogue Description

UNIT I: Introduction to organization development

Definition; scope and importance; relevance of organization development in community science; history of organizational development; revolution in organizational development; planned change - theories, models of planned change; general and specific.

UNIT II: Designing interventions for organisational development

Types; interpersonal and group process approaches - process consultation, third party evaluation; organisation process approaches - organization confrontation meeting, intergroup relations interventions, large group interventions; techno-structural interventions - engineering approach, motivational approach, socio-technical systems approach; human resource management interventions, performance management - goal setting, performance appraisal and reward systems.

UNIT III: Introduction to human resource development

Concept; relationship between human resource management and human resource development; HRD mechanisms - processes and outcomes; HRD matrix; HRD interventions; Roles and competencies of HRD professionals; challenges in HRD.

UNIT IV: HRD process

Assessing need for HRD; designing and developing effective HRD programmes; implementing HRD programs; evaluating effectiveness of HRD programs; HRD audit; HRD culture and climate; employee development activities - approaches, leadership development, action learning, assessment and development centres; intellectual capital and HRD.

UNIT V: HRD Trends

Coaching and mentoring; career management and development; employee counselling; Competency Mapping (CM); People Capability Maturity Model (PCMM); balanced score card; appreciative inquiry; integrating HRD with technology and employer branding and other emerging trends.

Lecture Schedule

SI.	Lecture	No. of
no.	topics	classes
1.	Introduction to organization development – Definition; scope and importance; history.	1
2.	Revolution in organizational development, relevance of organization development in community science.	1
3.	Planned change - Theories of planned change, models of planned change- general and specific.	1
4.	Designing interventions for organisational development – Types, interpersonal and group process approaches- process consultation, third party evaluation; organisation process approaches- organization confrontation meeting, intergroup relations interventions and large group interventions.	1
5.	Techno-structural interventions - Engineering approach, motivational approach Socio-technical systems approach; human resource management interventions; performance management- goal setting, performance appraisal, reward systems.	1
6.	Introduction to Human Resource Development – Concept, relationship between human resource management and human resource development.	1
7.	HRD mechanisms - Processes and outcomes, HRD matrix.	1
8.	HRD interventions, roles and competencies of HRD professionals.	1
9.	Challenges in HRD; HRD process - Assessing need for HRD.	1
10.	Designing and developing effective HRD programmes, implementing HRD programmes.	1
11.	Evaluating effectiveness of HRD programmes; HRD audit.	1

12.	HRD culture and climate, employee development activities- approaches, leadership development, action learning; assessment and development centres.	1
13.	Intellectual capital and HRD; HRD Trends - coaching and mentoring.	1
14.	Career management and development,; employee counseling-HRD trends	1
15.	Competency Mapping (CM), People Capability Maturity Model (PCMM).	1
16.	HRD trends- balanced score card; appreciative inquiry, integrating HRD with technology. Employer branding and other emerging trends.	1
	Pre final Examinations	2
	Total	18

Practical Schedule

SI. no.	Practical	No. of classes
1.	Visit to an organization to study the models of planned change and	1
	preparation	
2.	Presentation of report on models of planned change	1
3.	Research review and presentation of organizational interventions in	1
	national context	
4.	Research review and presentation of organizational interventions in	1
	international context	
5.	Collection of data/information and preparation of case studies on	2
	organizational interventions in health	
6.	Collection of data/information and preparation of case studies on	1
	organizational interventions in education	
7.	Collection of data/information on organizational interventions in	1
	welfare	
	and preparation of case studies.	
8.	Presentation of case studies.	1
9.	Study of existing HRD strategies of respective SAUs/institutions	1
10.	Analysis of existing HRD strategies of respective SAUs	1
11.	Analysis of existing HRD strategies of respective institutions	1
12.	Presentation of reports with recommendations	1
13.	Preparation of CM of the organization and planning for planned	1
	change	
14.	Preparation of PCMM of the organization and planning for planned	1
	change	
15.	Presentation of reports	1
	Lab final Examination	1
i	Total	17

After successful completion of the course, the students will be able to:

- Comprehend and differentiate organizational development processes and HRD strategies
- 2. Enlist, explain and prepare case study organizational development interventions in organisations
- 3. Analyse HRD strategies of organisations
- 4. Prepare CM and PCMM plan for planned change

Teaching Methods / Activities

- Lectures
- Assignment
- Field visit
- Case study writing
- Publication Review
- Student"s presentation

Suggested Readings

- 1. Brown, D. (2010). *Experiential Approaches to Organization Development*. (8th Ed.), Prentice Hall, New Jersey.
- 2. Cheung-Judge, M. and Holbeche, L. (2015). *Organization Development: A Practitioner's Guide for OD and HR*. 2nd Ed., Kogan, London.
- 3. Cummings, T.G. and Worley, C.G. (2014). *Organization Development and Change*. 10th Edition, West Publishing Company, New York.
- 4. David, M. (2009). Human Resource Development. Oxford University Press, Delhi.
- 5. Haldar, U.K. (2010). Human Resource Development, Oxford University Press India.
- 6. Harris, D.M. and Desimonerady, L. (2001). Human Resource Development. The Dryden Press, Orlando.
- 7. Harvey, D.F. and Brown, D.R. (2006). An Experimental Approach to Organization Development. 7th edition. New Delhi. Pearson Educaton.
- 8. Mankin, D. (2009). Human Resource Development. Oxford University Press, India. ISBN: 9780199283286.
- 9. Pace, R.W. and Smith Philipand Mills, G.E. (1991). Human Resource Development. The Field, Prentice Hall, New Jersey.
- 10. Traeger, J. and Warwick, R. (2018). *Organization Development: A Bold Explorer's Guide*. Libri Publishing, Farringdon, England.
- 11. International Journal of Human Resource Development and Management
- 12. International Organization of Scientific Research (IOSR) Journal of Humanities and

Social Science

- 13. European Journal of Work and Organizational Psychology
- 14. Human Resource Development Quarterly (Online)
- 15. Human Resource Development International
- 16. International Journal of Human Resource Studies

Suggested e-books

- 1. Jim Mcgoldrick. (2002). Understanding Human Resource Development: Philosophy, Processes & Practices. https://www.pdfdrive.com/understanding-human-resource-development-philosophy-processes-practices-routledge-studies-in-human-resource-development-e184374786.html
- 2. Werner J.M. & DeSimone R.L. (2016). Human Resource Development. https://www.pdfdrive.com/human-resource-development-e187055009.html
- 3. Vivein Martin.(2006). Managing Projects in Human Resources, Training and Development.https://www.pdfdrive.com/managing-projects-in-human-resources-training-and-development-e19664843.html

- 1. https://egyankosh.ac.in/bitstream/123456789/12250/1/Unit-19.pdf
- 2. https://egyankosh.ac.in/bitstream/123456789/7718/1/Unit-14.pdf
- 3. https://egyankosh.ac.in/bitstream/123456789/35894/5/Unit-15.pdf
- 4. https://egyankosh.ac.in/bitstream/123456789/35892/5/Unit-13.pdf
- 5. https://byjusexamprep.com/current-affairs/challenges-of-hrm
- 6. https://www.economicsdiscussion.net/human-resource-development/hrd-audit/32223.

Pre-requisite: Nil

Course Title : Educational Technology

Course Number : HEE 505

Credit Hours : 3 (2-0-

1) Why this Course?

Educational technology is a process of adopting modern technology for quality education. This primarily focuses on the educational values of the tools and applications, and later how adequate they are in acquisition of knowledge. Both theoretical and practical inputs are taught to the students in to this course, mold them for effective learning at present and proficient instructors in future endeavors. Rational exposure to conventional and contemporary educational approaches and strategies will help the students for self learning as well promote learning.

Aim of the Course

- 1. To sensitize students towards the role of educational technology for effective teaching and learning
- 2. To build competency as a teacher and public speaker
- 3. To enable self learning among students for application of education technology.

Catalogue Description

UNIT I: Overview of educational technology

Meaning; concepts and scope of educational technology; curriculum design and development; lesson planning; concept and methodology; modularised instruction - fundamentals, process, formulation of objectives, selection of media, field testing and evaluation of module.

UNIT II: Teaching learning process

meaning and characteristics of teaching and learning; maxims of teaching - stages, forms and levels of teaching and learning; motivation - concept, importance and techniques; teaching styles

- expert, formal authority, personal model, facilitator, delegator; learning styles - visual, aural, read/write, Kinaesthetic (VARK).

UNIT III: Teaching learning strategies

Microteaching; programmed instructions; simulation role-play; team teaching; experiential learning; traditional media; ICT applications in education; multimedia based teaching and learning.

UNIT IV: Current education

Genesis and trends; management of formal and non formal education in india; vocationalization of education; distance education; guidance and counselling; Innovative instructional aids - web instruction, e learning, virtual laboratories.

UNIT V: Educational technology for differently able

Visual impaired script - advances in braille; hearing impaired - advances in indian sign language; people with special needs - educational programs and government policies.

UNIT IV: Evaluation

Question bank; introduction to evaluation - need and importance in education appraisal of teacher performance; development of question bank; evaluation of instructional effectiveness; competency based question paper; reliability and validity of question papers.

Lecture Schedule

SI.	Lecture	No. of
no.	topics	classes
1.	Overview of educational technology- Overview of educational technology, meaning, concept and scope of educational technology, curriculum design and development.	2
2.	Overview of educational technology-Lesson planning, concept and methodology.	2
3.	Overview of educational technology- Modularised instruction- fundamentals, process, formulation of objectives, selection of media, field testing and evaluation of module.	2
4.	Teaching learning process- Meaning and characteristics of teaching and learning, maxims of teaching- stages, forms and levels of teaching and learning	3
5.	Teaching learning process-Motivation- concept, importance and techniques; teaching styles- expert, formal authority, personal model, facilitator and delegator.	2
6.	Teaching learning strategies- Learning styles- visual, aural, read/write, kinaesthetic.	1
7.	Teaching learning strategies- Microteaching, team teaching - programmed instructions, simulation role-play.	3
8.	Teaching learning strategies-Experiential learning and traditional media.	1
9.	Teaching learning strategies-ICT applications in education; multimedia based teaching and learning.	2
10.	Genesis and trends in modern education-Management of formal and non formal education in India; vocational education.	2
11.	Genesis and trends in modern education-Distance education, guidance and counselling.	2

12.	Educational technology for differently able-Innovative instructional aids - web instruction, e-learning, virtual laboratories. Educational technology for	2
	differently able-Visual impaired- advances in braille script.	
13.	Educational technology for differently able-hearing impaired- advances in Indian sign language, people with special needs- educational programmes and government policies.	2
14.	Introduction to evaluation- need and importance in education; development of question bank.	2
15.	Evaluation-Appraisal of teacher performance, evaluation of instructional effectiveness.	2
16.	Evaluation- Competency based question papers, reliability and validity of question papers.	2
	Pre final Examinations	2
	Total	34

Practical Schedule

SI. no.		No. of classes
1.	Identification of key terms in educational technology and preparation of directory	1
2.	Critical analysis of UG and PG curriculum of Community Science in relation to course objectives	2
3.	Research review on planning and implementation of lesson planning	1
4.	Presentation of research review report	1
5.	Preparation of lesson plan	1
6.	Conducting class as per lesson plan and self and peer evaluation	1
7.	Preparation of inventory for identification of teaching styles and execution	1
8.	Preparation and presentation of report	1
9.	Preparation of inventory for identification of learning styles and execution	1
10.	Preparation and presentation of report	1
11.	Construction of objective questions- Multiple choice, fill in the blanks	1
12.	Construction of competency based question paper- Matching, technical terms	1

13.	Construction of subjective questions- Short type	1
14.	Construction of subjective questions- Essay type	1
15.	Analysis of questions in terms of competency evaluation- Knowledge, memory, application and analysis	1
	Lab final Examination	1
	Total	17

After successful completion of the course, the students will be able to:

- 1. Comprehend conventional and contemporary trends of educational technology for various groups of learners
- 2. Analyse critically the course curriculum and lesson planning in terms of reaching course objectives
- 3. Prepare and execute inventory to identify learning styles
- 4. Construct competency based objective and subjective question papers

Teaching Methods / Activities

- Lectures
- Assignment
- Publication Review
- Survey and analysis
- Mock sessions
- Student presentation
- Group discussion

Suggested Readings

- 1. Dahama, O.P. and Bhatnagar, O.P. (2005). Education and Communication for Development. Oxford& IBH.
- 2. Bhaviskar, S.G. (2006). Modern Technology in Education. Kalyani Publication, New Delhi.
- Suhaskumar and Ruprao, P. (2014). Modern Trends in Curriculum Organization. 1st edn., Kalyani Publisher, New Delhi. ISBN: 9789382629566.
- 4. Heidi, H.J. (2010). Curriculum 21: Essential Education for a Changing World. 1st edn. ASCD Publishers, USA.
- 5. Kochhar, S.K. (1985). Methods and Techniques of Teaching. Sterling Publication.
- 6. Ray, G.L.(2017). Extension Communication and Management. Kalyani Publication, 8th edn. New Delhi. ISBN: 9789327276541.
- 7. Anita, S. (2019). Encyclopaedia of Curriculum Reforms and New Teaching

- Methods(4 Vol. Set). Dominant Publishers and distributors, New Delhi. ISBN: 9788183764247.
- 8. The International Journal of Educational Technology in Higher Education
- 9. The Journal of Educational Technology Systems
- 10. International Journal of Educational Technology.

Suggested e-books

- 1. Shareef M. Shareef, VinnarasNithyanantham. (2022). Fundamentals of Educational Technology. DOI: 10.2174/9789815039832122010009
- 2. Sampath, K., A. Panneerselvam, S. Santhanam. 2007. Introduction to EducationalTechnology.Sterling; Distributed by Apt Books, New Delhi, New Yorkhttps://www.worldcat.org/title/760175320.
- Romm, J. J. (2016). Climate Change: What Everyone Needs to Know. United Kingdom: Oxford University Press. https://books.google.co.in/books/download/Climate_Change.bibtex?id=FIChCgAA Q BAJ&output=bibtexM. Brückner, "Educational Technology," academia edu.,

- https://mis.alagappauniversity.ac.in/siteAdmin/ddeadmin/uploads/4/
 UG_B.Ed._Ed ucation_70141%20-%20Educational%20Technology_4262.pdf
- 2. http://hecm.in/educational-technology/lesson-19/
- 3. https://www.egyankosh.ac.in/bitstream/123456789/65129/3/Unit-9.pdf
- 4. https://resilienteducator.com/classroom-resources/5-types-of-classroom-teaching-styles/
- 5. https://www.egyankosh.ac.in/bitstream/123456789/46577/1/Unit-1.pdf
- 6. https://egyankosh.ac.in/bitstream/123456789/51950/1/Block-4.pdf

Course Title : Group Dynamics

Course Number : HEE 506 Pre-requisite:

Nil Credit Hours : 2(2-0-0)

Why this Course?

Group approach is proved to be the effective strategy as well an approach for execution of extension interventions through participation. By orienting students who are pursuing expertise in the field of extension education towards group behavior and its dynamics they can accelerate the participatory development processes by means of team and conflict management. Further, group dynamics is a system of behaviors and psychological processes occurring within a social group or between social groups i.e intra and intergroup dynamics. Hence, it will be useful in understanding decision-making behaviour, forms of social prejudice and discrimination, which are some of the major influencing factors of human development.

Aim of the Course

- 1. To develop understanding about group behavior and dynamics for effective communication and group management
- 2. To acquaint students with techniques for sustainable group dynamics.

Catalogue Description

UNIT I: Introduction to group and group dynamics

Meaning; characteristics; types and functions of groups; stages and process of group formation; group norms and structure; values; ethics; and morals.

UNIT II: Understanding group behaviour

Definitions; theories - social comparison, cognitive dissonance, self presentation, drive, social impact, self attention, social cognition theories; individual; interpersonal and human behaviour and dimensions.

UNIT III: Group dynamics

Cooperation; competition; communication; group pressure; group cohesiveness; group leadership; measurement of group dynamics - tools and techniques; group break down - causes and solutions; strengths; weaknesses and myths; crowds and the mob mentality; diversity and difference; group dynamic skills - training and development.

UNIT IV: Managing group

Team building; conflict management; stress management; active listening and feedback; achieving cooperative group structure.

UNIT V: Understanding collective action in groups

Collective action meaning; theories and applications; incentives for collective action; research reviews on collective action for sustainable group dynamics.

Lecture Schedule

SI. No.	Lecture Topics	No. of class es
1.	Introduction to group and group dynamics - Meaning and characteristics of group and group dynamics, types and functions of groups.	2
2.	Stages and process of group formation, group norms and structure.	2
3.	Values, ethics, and morals, understanding group behaviour— definitions	2
4.	Group behavior theories- Social comparison, cognitive dissonance, self presentation, drive and social impact.	2
5.	Self attention and social cognition theories	2
6.	Individual, interpersonal and human behaviour and dimensions. Group dynamics- concept and indicators of cooperation.	2
7.	Concept and indicators of competition; concept and indicators of communication.	2
8.	Concept and indicators of group pressure and group cohesiveness.	2
9.	Concept and indicators of group leadership, measurement of group dynamics - tools and techniques.	2
10.	Group break down - causes and solutions, strengths, weaknesses and myths	2
11.	Crowds and the mob mentality, diversity and difference.	2
12.	Group dynamic skills - training and development. Managing group - Team building	2
13.	Conflict management and stress management.	2
14.	Active listening and feedback, achieving cooperative group structure.	2
15.	Understanding collective action in groups - Collective action meaning, theories and applications.	2
16.	Incentives for collective action, research reviews on collective action for sustainable group dynamics.	2
	Pre final Examinations	2
	Total	34

After successful completion of the course, the students will be able to:

- 1. Analyze the features and developmental stages of groups and team process
- 2. Critically evaluate the theoretical concepts of group behaviour in real situation
- 3. Able to measure group dynamics
- 4. Demonstrate group dynamic skills
- 5. Apply problem-solving skills and higher level thinking strategies

Teaching Methods / Activities

- Participatory lectures
- Assignment
- Demonstration
- Role play
- Presentation
- Research review

Suggested Readings

- 1. Ernest, S. and Sharon, A.R. (1985). Effective Group Communication- How to Get Action by Working in Groups. National Textbook Company, Lincolnwood.
- 2. Vanni, F. (2014). The Role of Collective Action. Agriculture and Public Goods, 21. DOI 10.1007/978-94-007-7457-5_2, © Springer Science +Business Media Dordrecht.
- 3. Mary, A.G. and Hennen.(2009). Stages of Group Development. Shared by Extension Center for Community Vitality, 10-21-14.
- 4. Mary, S. (2010). Book of Conflict Resolution Games Quick, Effective Activities to Improve Communication, Trust, and Collaboration. ISBN: 978-0-07-174366-2.
- 5. Smith, G.E. (2001). Group Development: A Review of Literature and A Commentary on Future Research Directions. Group Facilitation.
- 6. Susan, W.A. (2005). Facilitating Group Communication. The Handbook of Group Research and Practice, Sage Publications, Inc, Thousand Oaks.

Suggested e-books

- 1. Norris M. Haynes. Group Dynamics: Basics and Pragmatics for Practitioners. Group Dynamics eBook by Norris M. Haynes EPUB | Rakuten Kobo India
- 2. Donelson R. Forsyth. Group Dynamics 007 Edition, Kindle Edition. ISBN-13:978-1337408851. Amazon.com: Group Dynamics eBook: Forsyth, Donelson R.: Kindle Store

- 1. https://open.lib.umn.edu/organizationalbehavior/chapter/10-4-conflict-anagement/
- 2. https://www.iedunote.com/group
- 3. https://www.wcupa.edu/coral/tuckmanStagesGroupDelvelopment.aspx
- 4. https://egyankosh.ac.in/bitstream/123456789/20891/1/Unit-2.pdf
- 5. https://www.mindtools.com/pages/article/newTMM 79.htm

Course Title : Community Development and Outreach

Course Number : HEE 507 Pre-requisite: Nil

Credit Hours : 3(2-0-1)

Why this Course?

This course prepares students for an interdisciplinary field working. It teaches facilitation and organizing a grassroot effort, equipping with skills to empower a local, regional or international community to bring about change. A real-world experience through the programmes will benefit strong connections in and with the community and communicate effectively with local groups as well as public and private agencies. It builds skills for critical thinking in matters of social justice, sustainable development, community engagement, community asset-mapping, fundraising, team building, collaborative leadership, project management, research and project evaluation.

Aim of the Course

- 1. To orient students with community development and outreach perspectives
- 2. To impart participatory research skills
- 3. To handle a special project for analysis of community development outreach.

Catalogue Description

UNIT I: Community development

Definition, issues and concepts; historical perspective of community development in India and emerged changes since inception to current era.

UNIT II: Approaches

Approaches - concept and characteristic features of Gandhian approach, community development approach, sectoral approach, target approach, area approach, minimum need approach, integrated or holistic approach, participatory development approach; Strategies - multipurpose strategy, growth oriented strategy and spatial planning strategy; the modernization theory; human development model (components, HDI, ranking, gender related development index, HPI)

UNIT III: Key principles of community development

Community participation - definition and scope; inclusion; equality; collective action; empowerment and community development process; provision of information; identification of felt needs and common issues; consultation for shared vision; mobilisation for action; reflection and evaluation.

UNIT IV: Community development and governance in India

Community development policy in India; community development perspectives in five year plans.

UNIT V: Cross cutting edges of community development

Horizontal edges - education, health, women empowerment, skill development, agriculture and caste occupations; vertical edges - adults, youth, adolescents, children, pregnant and lactating mothers, physically and mentally challenged.

UNIT VI: Outreach of community development

General orientation to outreach models- precede model, evaluation and indicator metrics; outreach of urban; rural and tribal community development programmes; impact - economic and social perspectives.

UNIT VII: Globalisation impact on community development

Impact on social forms - individualism, enclavism and fatalism, transition between gemeinschaft and gesellschaft, issues of migration and mitigation.

Lecture Schedule

SI. No.					
	·	class es			
1.	Community development - definition, issues and concepts; historical perspective of community development in India and emerged changes since inception to current era.				
2.	Approaches- Concept and characteristic features - Gandhian approach, community development approach.				
3.	Sectoral and target approach.	1			
4.	Area and minimum need approach.	1			
5.	Integrated or holistic approach; participatory development approach.	2			
6.	Strategies - multipurpose strategy, growth oriented strategy and spatial planning strategy.				
7.	Key principles of community development - community participation- definition and scope; inclusion, equality and collective action.				
8.	Empowerment and community development process; provision of 2 information; identification of felt needs and common issues.				
9.	Consultation for participation shared vision; mobilisation for action; reflection and evaluation.	2			
10.	Community development and governance in India-Community development policy in India, community development perspectives in five year plans.	3			
11.	Community development issues - Horizontal issues - education, health, empowerment, vocational and skill development, agriculture and caste occupations.	3			
12.	Community development issues- Vertical edges - adults, women, youth,	2			

	adolescents, children, pregnant and lactating mothers; physically and mentally challenged			
13.	Outreach of community development - General orientation to outreach models - precede model.	2		
14.	Evaluation and indicator metrics; outreach of urban, rural and tribal community development programmes.			
15.	Impact- Economic and social perspectives; globalisation impact on community development - impact on social forms – individualism.			
16.	Enclavism and fatalism, transition between gemeinschaft and gesellschaft (community and society), issues of migration and mitigation.	2		
	Pre final Examinations	2		
	Total	34		

Practical Schedule

SI. No.	Practical	No. of classes
1.	Selection of community development programme and detailed description of the programme in terms of objectives, targets, inputs, expected outputs and outcome	
2.	Visit to programme operating area and interaction with stakeholders-implementing agency, personnel and beneficiaries	2
3.	Visit to programme operating area and interaction with stakeholders-implementing agency, personnel and beneficiaries	2
4.	Framing of special project for measurement of outreach – title, objectives, study area, research review and plan of work	2
5.	Finalisation of tools and techniques for execution of project	1
6.	Finalisation of tools and techniques for execution of project	1
7.	Preparation of tools for execution of project	1
8.	Field testing and finalization of tools	1
9.	Execution of work plan	1
10.	Data analysis and preparation of project report	1
11.	Data analysis and preparation of project report	1
12.	Presentation of report	1
	Lab final Examination	1
	Total	17

Learning Outcomes

After successful completion of the course, the students will be able to:

- 1. Comprehend and differentiate organizational development processes and HRD strategies
- 2. Critically analyse different approaches of community development

- 3. Plan and execute special project
- 4. Analyse the results and write report
- 5. Write research papers based on the special project

Teaching Methods / Activities

- Lectures
- Assignment
- Field visit
- Case study writing
- Special project
- Publication Review
- Students" presentation

Suggested Readings

- 1. Jerry, W.R. and Gary, P.G. (2010). Introduction to Community Development: Theory, Practice, and Service-Learning. 1st Edition, Sage Publications ISBN-9781483343235.
- 2. Manohar, P. (2014). Social and Community Development Practice http://dx.doi.org/10.4135/9789351507987
- 3. Marianne, R. Woodside and Tricia, McClam. (2014). An Introduction to Human Services. 8th Edition. Cenage Learning Publisher, ISBN- 1305142845 ISBN- 9781305142848.
- 4. Patil, A.R. (2013). Community Organization and Development: An Indian Perspective. PHI Learning Private Limited, Delhi 110092. ISBN 978-81-203-4694-9
- 5. Rhonda, P. and Robert, P. (2009). An Introduction to Community Development (Volume 1) 1st ed., Publisher- Routledge, USA, ISBN-0-203-88693-3.

Suggested e-books

- 1. Rhonda Phillips and Robert H. Pittman. (2009). An introduction to community development. ISBN-0-203-88693-3.
 - https://khairulhkamarudin.files.wordpress.com/2013/04/an-introduction-to-community- development.pdf
- 2. Gracious Thomas. (2010). Community Organization Management for Community Development. https://egyankosh.ac.in/bitstream/123456789/52013/1/MSW-009.pdf

Suggested Websites

- 1. https://core.ac.uk/download/144524883.pdf
- 2. https://egyankosh.ac.in/bitstream/123456789/34116/1/Unit-4.pdf
- 3. https://egyankosh.ac.in/bitstream/123456789/59006/1/Unit5.pdf
- 4. https://www.egyankosh.ac.in/bitstream/123456789/39241/1/Unit-3.pdf
- 5. http://publiclibrariesonline.org/2013/04/from-project-to-branch-integration-and-sustainability-community-led-work-at-halifax-public-libraries
- 6. http://www.ala.org/tools/sites/ala.org.tools/files

DEPARTMENT OF EXTENSION EDUCATION & COMMUNICATION MANAGEMENT

Course Title : Gender Sensitization for Empowerment

Course Number : HEE 508 Pre-requisite:

Nil Credit Hours : 2 (2-0-0)

Why this Course?

This course provides sensitivity among the students towards involvement of women in decision making processes in all aspects of economic, political, social and cultural life as active administrators, decision makers, participants and beneficiaries. It also provides skill to identify lapses in gender equity and equality like sex ratio, employment and wages, literacy and education and health. With this perspective they can play an active role in issues of national interest like gender budgeting, gender accounting and gender analysis frame work.

Aim of the Course

- 1. To sensitize students towards gender perspectives and development, legal rights and using gender tools and methodologies
- 2. To enhance students" capability for identifying and analyzing gender issues in family/home, community, agriculture and allied sectors.

Catalogue Description

UNIT I: Overview of gender

Concept; meaning and related terms; gender sensitization - concept, meaning and importance of gender sensitization; gender and empowerment - meaning, definitions and need; gender issues in home - community and organization.

UNIT II: Gender issues

Gender issues and challenges in development; understanding gender and subordination of women; gender as a development tool; policy approaches for women development; gender perspectives in development of women - roles, responsibilities, access and control over resources, constraints and opportunities.

UNIT III: Gender tool kit for assessment of gender empowerment

Gender budgeting and gender analysis framework - context, activities, resources and programme action profile; concept of GDI, GEM, GSI; national and regional indicators.

UNIT IV: Gender issues and development

National policy for empowerment of women since independence; interventions to enhance women's empowerment at individual; community and national level; livelihood implications of gender- health and nutrition, agriculture, violence, governance, education, media and legal issues.

Lecture Schedule

SI. No.	Lecture Topics				
1.	Overview of gender - Concept, meaning and terminology.				
2.	Gender sensitization - concept, meaning and importance of gender sensitization.				
3.	Gender and empowerment - meaning, definitions and need.				
4.	Gender issues in home, community and organization.				
5.	Gender issues - gender issues and challenges in development.	1			
6.	Understanding gender and subordination of women.	1			
7.	Gender as a development tool, policy approaches for women development.	2			
8.	Gender perspectives in development of women - roles, responsibilities, access and control over resources, constraints and opportunities.				
9.	Gender tool kit for assessment of gender empowerment - Gender budgeting and gender analysis framework- context, activities, resources and programme action profile.				
10.	Concept of GDI, GEM, GSI; international, national and regional indicators.				
11.	Gender issues and development - national policy for empowerment of women since independence.				
12.	Interventions to enhance women's empowerment and leadership at the individual level.				
13.	Interventions to enhance women's empowerment and leadership at the community level.				
14.	Interventions to enhance women's empowerment and leadership at the national level.				
15.	Livelihood implications of gender, health and nutrition, agriculture, violence and governance.				
16.	Education, media and legal issues.	2			
	Pre final Examinations	2			
	Total	34			

Learning Outcomes

After successful completion of the course, the students will be able to:

- 1. Comprehend gender issues and challenges for development
- 2. Realise the need for modification of behavior by raising awareness of gender equality concerns
- 3. Examine their personal attitudes, beliefs and questioning the 'realities' they thought they know

Teaching Methods / Activities

- Participatory lectures
- Assignment
- Mock sessions
- Publication Review
- Student presentation

Suggested Readings

- 1. Adriana, D.S. (2010). Gender Issues and International Legal Standards: Contemporary Perspectives, Catania, Italy.
- 2. Sahoo, R.K. and Tripathy, S.N. (2006). SHG and Women Empowerment: A study on some selected SHGs. Internation Journal of Business and Management Invention.Vol. 2(9), pp54-61.ISSN (online) 2319-8028.
- 3. Indian Journal of Gender Studies
- 4. International Journal of Gender and Women's Studies

Suggested e-books

- 1. Tool Kit on Gender Equality Results and Indicators.(2013). ISBN: 978-92-9254-338-9. https://www.adb.org/documents/tool-kit-gender-equality-results-and-indicators
- 2. Gender Tool Kit: Micro, Small, and Medium-Sized Enterprise Finance and Development. (2014). ISBN: 978-92-9254-437-9. https://www.adb.org/documents/gender-tool-kit-micro-small-and-medium-sized-enterprise-finance-and-development
- Commonwealth Youth Programme Diploma in Youth Development Work. (2007) Gender and Development. https://www.ebookbou.edu.bd/Books/Text/SARD/DYDW/module05.pdf
- 4. Gender Budgeting Handbook for Government of India Ministries and Departments (2007) Ministry of Women and Child Development, GOI http://wcd.nic.in/gender- budgeting.
- Measuring Women's Empowerment: An assessment of the Gender-related Development Index and the Gender Empowerment Measure www.tandfonline.com
- 6. A Toolkit for Women"s Empowerment and Leadership in Health and Welfare http://www.who.int/kobe_centre/publications/womens_empowerment 2005.pdf
- 7. Indicators for Gender Equality and Women's Empowerment AnIntroduction http://www.oecd.org/development/gender-development/43041409.pdf

Suggested Websites

- 1. https://rkmvshimla.edu.in/about/gendersens/
- 2. Gender Sensitization 0.pdf (ncw.nic.in)
- 3. https://byjus.com/free-ias-prep/gender-sensitization/
- 4. https://www.euro.who.int/ data/assets/pdf_file/0020/76511/EuroStrat_Gender_tool.pdf
- 5. https://www.oecd.org/gov/budgeting/Gender-Budgeting-Highlights.pdf
- 6. https://wcd.nic.in/gender-budgeting

DEPARTMENT OF EXTENSION EDUCATION & COMMUNICATION MANAGEMENT

Course Title : Research Methodology in Community Science

Course Number : HEE 581 Pre-requisite: Nil

Credit Hours : 3 (2-0-1)

Why this Course?

Research methodology course provides an initial background and an outline of carrying out the research for the students. The researcher knows the details of the research approaches, types and the methods used in conducting research. It also provides a detailed plan that helps to keep researchers on track, making the process smooth, effective and manageable. The course will make students learn to report research findings in a scientific way which is very important from research publication point of view in current scenario.

Aim of the Course

- 1. To understand the various types of educational research and research design, techniques and their application.
- 2. To develop an understanding and competence to write a research proposal, thesis and research paper.

Catalogue Description

UNIT I: Research and its types

Research - Meaning, importance, objectives, characteristics and problems in research; need for community science research. Types of research- fundamental, applied, action, exploratory, descriptive, diagnostic, historical, experimental and analytical.

UNIT II: Steps in scientific research

Selection of research problem and objectives; review of literature - importance and methods of literature survey; concept, variables and hypothesis; research design - meaning, need, features, and types; sampling, types of sampling and sampling techniques; data collection - classification of data, qualitative and quantitative methods.

UNIT III: Data collection methods

Methods of data collection - observation, interview, questionnaire, case study, focused group discussion; Participatory Rural Appraisal techniques - mapping, matrix ranking, time line, and seasonal calendar. Processing and analysis of data.

UNIT IV: Measurement and data processing

Levels of measurement and concept of reliability and validity:

processing and analysis of data.

UNIT V: Report writing and research ethics

Scientific report writing- meaning, guidelines for presenting data, summary techniques, conclusion, recommendations and reference citation.

UNIT VI: ICT in research

Application of Information and Communication Technology (ICT) in research.

Lecture Schedule

SI. no.			
	topics	classes	
1.	Research: Meaning, importance, objectives, characteristics and	2	
	problems in research. Need for community science research.		
	,		
2.	Types of research: fundamental, applied, action, exploratory,	3	
	descriptive, diagnostic, historical, experimental and analytical.		
3.	Steps in scientific research : an overview	1	
4.	Selection of research problem and objectives	1	
5.	Review of literature: importance and methods of literature survey	2	
6.	Concept, variables and hypothesis	3	
7.	Research Design : meaning, need, features, and types		
8.	Sampling, types of sampling and sampling techniques	3	
9	Data Collection: classification of data, qualitative and		
	quantitative methods		
10.	Methods of data collection : observation, interview,	2	
44	questionnaire, case study, focused group discussion		
11.	Participatory Rural Appraisal techniques : mapping, matrix	3	
	ranking, time line, seasonal calendar		
12.	, and the second	2	
13.	Processing and analysis of data	2	
14.	Scientific report writing: meaning, guidelines for presenting data,	2	
14.	summary techniques, conclusion, recommendations and	2	
	reference		
	citation		
15.	Research ethics and plagiarism	1	
16.	Application of Information and Communication Technology (ICT)	1	
	in research	-	
	Pre final Examinations	2	
	Total	34	

Practical Schedule

SI.	Practical	No. of
no.		classes
1.	Selection of research problem and formulation of objectives	2
2.	Conduct of literature survey	2
3.	Outline of research work and hypothesis formation	2
4.	Data collection methods -development of observation guide, interview schedules, questionnaire and conduct of focused group discussion	4
5.	Review paper writing	2
6.	Formulation of research project proposal	3

7.	1	
Lab final Examination		1
Total		17

Learning Outcomes

After successful completion of this course, the students will be able to-

- 1. Understand the types of research, research design, data collection techniques and research application.
- 2. Identify research problem, research objectives and formulate hypothesis.
- 3. Gain knowledge and skills for thesis, research/review paper writing and formulation of research projects.

Teaching Methods / Activities

- Lectures
- Assignment
- Student"s presentation
- Guest lectures
- Library visits
- Mini project

Suggested Reading

- 1 Ray, G. L. and Mondal, S. 1999. Research Methods in Social Sciences and Extension Education. Kalyani Publishers New Delhi.
- 2 Kerlinger, F. N. 1964. Foundations of Behavioral Research. New York University.
- 3. Latwal, G. S. 2020. Research Methodology. IK International Publishing House Private limited.
- 4. Kothari, C. R., 2004. Research Methodology: Methods and Techniques. Sage Publications, New Delhi.
- 5. James V., Kahn, J and Best, W. 2016. Research in Education. Pearson
- 6. Mishra, S.B and Alok, S. 2011. Handbook of Research Methodology. Educreation Publishers

Suggested e-books

- Kothari, C. R., 2004. Research Methodology: Methods and Techniques. https://www.cusb.ac.in/images/cusbfiles/2020/el/cbs/MCCOM2003C04%20(Business%20Research%20Methods)Resear ch Methodology C R Kothari.pdf
- Kumar, R. 2011.Research Methodology: A Step-by-Step Guide for Beginners https://www.google.co.in/books/edition/Research_Methodology/MKGVAgAAQBA J?hl
 - =en&gbpv=1&printsec=frontcover

Suggested Websites

- 1. https://gradcoach.com/what-is-research-methodology/
- 2. https://paperpile.com/g/what-is-research-methodology/
- 3. https://www.questionpro.com/blog/what-is-research/
- 4. https://research-methodology.net/
- https://library.tiffin.edu/researchmethodologies/whatareresearchmethodologies

Agenda Item No. Admission Policy for Admission to Ph.D. in Management 1/2023:09(02) w.e.f. Academic Session 2023-2024

1. Eligibility Qualifications

Ph.D. in Management

Masters' Degree or equivalent in Business Administration/ Management

The candidate, in addition to possessing above qualification, need to fulfill the conditions mentioned hereunder. Further they have to qualify all the components of admission test and secure a place in the merit list so as to be eligible for admission:

- (a) At Master's level, the candidate should have secured an OGPA not less than 6.500/10.000 or 4.000/5.000 or Ist Division in case of the Universities where these grading scales are not applicable. At Bachelor's level the candidate must possess an Overall Grade Point Average of not less than 6.000/10.000 or 3.000/5.000 or 55% marks in aggregate in case of the Institutions/Universities where these grading scales are not applicable.
- (b) At Master's level only a relaxation of 5% marks, or an equivalent relaxation of grade, will be allowed to those belonging to SC/ST/OBC (non-creamy layer)/Differently-abled categories of candidates.

2. Selection Procedure

"The candidate will have to appear either in common Admission Test (CAT) or Common Management Admission Test (CMAT) conducted by respective agencies." CABM will use CAT/CMAT score for short listing the candidates for its Ph.D. in Management programs. These short listed candidates will have to appear for further screening on the basis of Research Proposal Presentation and Personal Interview at CABM, Pantnagar on specified date(s).

The candidates willing to take admission in Ph.D. in Management programme will have to apply separately to CABM, Pantnagar through online admission portal with URL: http://www.gbpuat.in.

(Admission Committee has the right to conduct or wave off or modify Research Proposal Presentation and Personal Interview part of the Selection Process as per situations prevailing at that time in the country/state.)

3. Number of Seats

Number of Seats in Ph.D. in Management programme in session 2023 - 24 are 04 (02 + 02).

Fifty percent of the total seats available for the Ph.D. in Management programme would be reserved for candidates from Uttarakhand and 50 percent for candidates from Other States. In case of seats of Other-States remain vacant; they will be filled from the candidates of Uttarakhand State and vice-versa.

Financial Aid/Bursaries/Scholarships

Two fellowships are to be awarded of Rs. 6000/- per month on the basis of merit to the eligible students admitted in each discipline for period of 36 months. If the total number of fellowships thus provided is not utilized due to any valid reasons whatsoever, the University shall be free to redistribute the allocation of the vacant fellowship position and award the same to other students who could not be granted fellowship in the first instance due to the aforesaid restriction of two fellowships in each

discipline. However, this latter award shall be based on academic rating and shall be made after all admission in question have been made for the academic year.

4. Sponsored Candidates: Sponsored students under the following categories will be admitted over and above the present sanctioned strength of 04 seats on the following basis:

Foreign students: Over and above the sanctioned seats, two seats in Ph.D. programmes shall be available to Foreign Nationals (Candidates) on Payment of an institutional fee of US\$5000 per year. In addition to it, they will have to pay US\$ 2000 per year to College of Agribusiness Management as programme fee. Foreign students shall not be required to appear in the Entrance Examination. They shall be admitted subject to fulfillment of minimum eligibility qualification and conditions.

Candidates sponsored by GBPUAT, Pantnagar/ Development Departments of State Government/ Applicants entitled to fellowship based on National Selection (UGC/ICAR): Over and above the sanctioned seats, two seats in Ph.D. are reserved for the candidates sponsored by the G.B. Pant University of Agriculture and Technology, Pantnagar and Development Departments of State Government, in addition to existing seats, subject to the following conditions:

(a) Applicants who have earned entitlement to fellowship based on National Selection (UGC/ICAR) and the sponsored staff candidates of GBPUAT, Pantnagar and Development Departments of State Govt. are not required to appear in Entrance Examination. They shall be admitted subject to fulfillment of minimum eligibility qualification and conditions.

5. Reservation

Seats for OBC, SC and ST candidates are reserved as per the reservation policy of the State Government of Uttarakhand, implemented by the University. Candidates claiming reservation shall be required to submit appropriate certificate as per Annexure-I, at the time of Research Proposal Presentation/ Personal Interview, failing which they shall be treated in general category only. Any subsequent claim for reservation shall not be entertained. For getting reservation under OBC category the certificate should not be issued earlier than March 2020.

6. Candidates from States other than Uttarakhand

A candidate falling in either of the following categories will be considered in 'Other State' category:

- a. A candidate who is a permanent resident outside Uttarakhand since birth, as specified in the domicile certificate, or
- b. A candidate whose permanent address is outside the Uttarakhand State, unless he submits domicile certificate of Uttarakhand at the time of Research Proposal Presentation / Personal Interview, or
- c. A candidate who has completed his qualifying examination from outside the Uttarakhand State unless he submits domicile certificate from Uttarakhand at the time of Research Proposal Presentation / Personal Interview.

Note: The candidates who have completed their qualifying degree from G. B. Pant University of Agriculture and Technology will be treated as domicile of Uttarakhand for admission to Ph.D. in Management program as per G. O. No. 350/XIII – I/ 30 (2)/ 2001 dated 06/07/08 and 218/ Krishi evam Jalagam/ 2004 dated 28.02.2004, and as per resolution adopted by the Academic Council in its 338th meeting.

7. Duration

The normal duration of Ph.D. in Management program is three academic years or six semesters. The minimum and maximum duration of the program is six and twelve semesters respectively.

8. Sale and Submission of Application Forms

The candidate can access the application form on website at URL: www.gbpuat.in and the price of form Rs. 1500.00 would have to be paid online as per instructions provided at website. There is no other mode/provision of making form available.

Important dates concerning application form

Start of Online Form Availability: January 02, 2023 (Monday)

Last Date for filling form: March 31, 2023 (Friday)

Last Date with Late Fee (After March 31, 2023): April 15, 2023 (Saturday)

9. Medical Examination

All candidates called for Group discussion/Personal Interview will be required to produce medical and physical fitness certificate from the Chief Medical Officer or equivalent.

10. Verification of Documents

At the time of Group Discussion, candidates will be required to produce all Certificates/mark sheets right from Class X till their eligibility qualifications along with a character certificate from the Head of the Institution (Registrar/ Dean/ Principal/ Director of the University/College/ Institute) last attended.

11. Mode of Admission

The candidates will be selected for admission on the basis of their performance in CAT/CMAT, Research Proposal Presentation and Personal Interview. The weightage of these three components will be:

COMPONENT	WEIGHTAGE
Entrance Test Score (CAT/ CMAT)	60%
Research Proposal Presentation	30%
Personal Interview	10%

The equivalence between CAT and CMAT score will be established as per recommendation given by the Committee constituted by the Academic Council in its 379th meeting and approved by Academic Council in 385th meeting.

Qualifying marks in Entrance Test, Research Proposal Presentation and Personal Interview will be decided by the Admission Committee.

12. Fee Structure and Payment Schedule

- I) The candidates are required to pay the fee of the Ph.D. in Management programme within the limits specified in the following paragraph. **Admission/Counseling Fee:** All candidates called for Research Proposal Presentation and Personal Interview (whether finally admitted or not) will be required to deposit a non-refundable fee of Rs. 3,000 as Counseling fee. This is a necessary pre-requisite for attending the Research Proposal Presentation and Interview.
- **II) Program and University Fee**: All those candidates admitted to Ph.D. in Management programme of CABM will have to pay two kinds of fees separately: (1) the Program fee and (2) the University Fee. The fee details are as follows:

a) The Program Fee: The Program fee for Ph.D. in Management program has to be paid through DD in favour of 'Dean, College of Agribusiness Management' payable at Pantnagar. A student can also pay this Program fee through RTGS/NEFT based internet transfer and send photocopy of the fee transfer receipt to CABM. (Revolving Fund CABM, Punjab National Bank, Pantnagar, IFSC Code: PUNB0444600, Account No: 4446001100000145)

The details of this Program fee is as follows:

Before Registration in First Semester* 2023-2024 : Rs. 50,000/= Ist day of Registration in First Semester 2024-2025 : Rs. 50,000/= Ist day of Registration in First Semester 2025-2026 : Rs. 50,000/=

The programme fee for the sponsored candidates (other than Foreign Students) will be double of the amount charged for regular/ normal candidate. Foreign Students will have to pay US\$ 2000 as programme fee per year.

*By a date fixed by the Admission Committee but before the registration in first semester.

b) The University Fee: The University fee has to be paid at the time of registration through DD in favour of the Comptroller, GBPUAT, Pantnagar. The details of the present University fee is as follows:

First day of Registration in I Semester	2023-2024	:	Rs. 20442.00 **
First day of Registration in II Semester	2023-2024	:	Rs. 20442.00 **
First day of Registration in I Semester	2024-2025	:	Rs. 20442.00 **
First day of Registration in II Semester	2024-2025	:	Rs. 20442.00 **
First day of Registration in I Semester	2025-2026	:	Rs. 20442.00 **
First day of Registration in II Semester	2025-2026	:	Rs. 20442.00 **

In addition to the fee above, students have to pay food advance of Rs 20000/- each semester.

III) Refund of Fee:

If the candidate fails to register within the stipulated period after document verification, his/her admission will stand cancelled automatically and the seat allotted to him/her will automatically be cancelled and go to the next round of counseling. The University Fee Component of the Total Fee deposited by the candidate will be refunded as per University rules. The total amount of University fee shall be paid by a candidate before issuing the ID number. The amount of University fee to be deposited at time of counseling may be seen from the University website.

The Programme Fee Component of the Total Fee deposited by the candidate will be refunded only if the student withdraws his/ her admission at least 15 days prior to the formally notified last date of admission. After the mentioned period the programme fee will not be refunded.

NOTE:

- 1. The program fee shall be paid as soon as the admission is confirmed as per the Admission Offer letter issued.
- 2. The program fee shall be per annum irrespective of number of semesters completed by the student in an academic year.
- 3. Only Caution Money is refundable.
- 4. Only Food advance is adjustable.
- 5. Food bills on actual are to be paid every month.

^{**} Subject to the revision by the University.