

**FACULTY OF AGRICULTURAL SCIENCES
D A V UNIVERSITY, JALANDHAR**

Ref. No. DAVU/AGR/2023-24/010

Date: 12.07.2023

To

The Registrar
DAV University, Jalandhar

Subject: Proceedings of the meeting – Board of Studies, Faculty of Agricultural Sciences for consideration and approval by the Academic Council.

Dear Sir,

Please find enclosed the proceedings as per the subject cited above for your kind consideration and further approval by the academic council of the University.

With kind regards


Dr. KS Thind 10895

DEAN FAS

**Faculty of Agricultural Sciences
DAV University, Jalandhar**

Proceedings of the meeting Board of Studies of the Faculty of Agricultural Sciences held on 1st June, 2023 at 11:00 AM in the Committee Room

Following were present:

- | | |
|---|-----------------------|
| 1. Dr. K. S. Thind, Dean | Chairman of the Board |
| 2. Dr. V. K. Kaul, Professor | External Expert |
| 3. Dr. R. K. Seth, Dean (Sciences & Technology) | Member |
| 4. Dr. Gitika Nagrath, Dean (CBME and Humanities) | Member |
| 5. Dr. Ashutosh Sharma, Associate Professor | Member |
| 6. Dr. Anju Pathania, Associate Professor | Member |
| 7. Dr. A. H. Reddy, Assistant Professor | Member |
| 8. Dr. Ludramani, Assistant Professor | Member |
| 9. Dr. Gursharan Singh, Professor | Special Invitee |

Following Agenda Items were discussed and recommendation made, unanimously:

Agenda 1: Review of implementation of recommendations of the Fifth Deans' Committee

The members of the Board noted with satisfaction that recommendations of the Fifth Deans' Committee with respect to the curricula have already been implemented. Semester-wise offering of courses was rescheduled (Annexure-1). Further some changes were recommended in the curricula of elective courses (Annexure-2). However, those concerning the conduct and evaluation system needs to be implemented as per Annexure-3.

The Board recommended that all these academic changes be got approved by the Academic Council for their implementation with respect to the coming academic session, 2023-24

(Action: Registrar)

Agenda 2: Implementation of Broad Subject Matter Area Committee recommendations for PG programmes

The BSMA Committee of ICAR has recently revised/restructured the curricula and other

PROCEEDINGS OF BOARD OF STUDIES MEETING

The Board recommended that the Faculty of Agricultural Sciences of the DAV University should follow the given recommendation (Annexure-4) with respect to the coming academic session 2023-24 for the existing PG courses and also for those in the pipeline for starting from the academic session 2023-24. In addition to the academic guidelines given by BSMA Committee, the Dean may frame / modify the guidelines to ensure academic excellence in PG programmes.

Link for the BSMA committee recommendation is given below:
<<https://icar.org.in/files/edu/379.htm>>



(Dr V K Kaul)

External Expert


(Prof. Gursharan Singh)

Member


(Dr. R. K. Seth)

Member


(Dr. Gitika Nagrath)

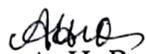
Member


(Dr. Ashutosh Sharma)

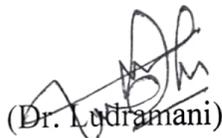
Member


(Dr. Anju Rathania)

Member


(Dr. A. H. Reddy)

Member


(Dr. Ludramani)

Member


Dean 11/6/23

(Faculty of Agricultural Sciences)

Annexure-1

After detailed discussions, the committee resolved to reschedule the curricula of 7th and 8th semesters.

Semester VII	
Agro-Industrial Attachment / In-Plant Training/ Rural Agricultural Work Experience	Total Credit Hours = 20
Semester VIII	
Experiential Learning Module	Total Credit Hours = 20

Total credit hours for the degree programme = 179

The committee further observed that intensive efforts should be made for creating adequate facilities to carry out the different activities under proposed ELPs by the respective ELP coordinators.

ANNEXURE II

Scheme of Courses B.Sc. (Hons.) Agriculture Semester 1

S. No	Paper Code	Course Title	L	T	P	Cr
1.	AGS 111	Fundamentals of Agronomy	3	0	1	4
2.	AGS 112	Fundamentals of Agricultural Economics	2	0	0	2
3.	AGS 113	Fundamentals of Genetics	2	0	1	3
4.	AGS 114	Communication Skills and Personality Development	2	0	0	2
5.	AGS 115	Fundamentals of Soil Science	2	0	1	3
6.	AGS 116A	Introductory Agro-meteorology & Climate Change	1	0	1	2
7.	AGS 117	Agricultural Heritage	1	0	0	1
8.	AGS 118	Introductory Biology**	1	0	1	2
9.	AGS 118A	Elementary Mathematics**	2	0	0	2
10.	AGS 119	Introduction to Forestry	1	0	1	2
11.		NSS/NCC/Physical Education & Yoga Practices	0	1	2	2
						22

** - Student will have to opt either of these courses on the basis courses studied in 10+2

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Semester 2

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 121	Agricultural Microbiology	1	0	1	2
2	AGS 122	Fundamentals of Agricultural Extension Education	2	0	1	3
3	AGS 123	Fundamentals of Crop Physiology	1	0	1	2
4	AGS 124	Fundamentals of Entomology	3	0	1	4
5	AGS 125	Fundamentals of Horticulture	1	0	1	2
6	AGS 126	Fundamentals of Plant Biochemistry and Biotechnology	2	0	1	3
7	AGS 127	Fundamentals of Plant Breeding	2	0	1	3
8	CSA 257	Agri- Informatics	1	0	1	2
9	ENG 153B	Comprehension & Communication Skills in English	1	0	1	2
10	AGS107B	Human Values & Ethics	1	0	0	1
11		NSS/NCC/Physical Education & Yoga Practices	0	1	2	2
						25

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Scheme of Courses B. Sc. (Hons.) Agriculture
Semester 3

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 211	Crop Production Technology – I (<i>Kharif Crops</i>)	1	0	1	2
2	AGS 212	Fundamentals of Plant Pathology	3	0	1	4
3	AGS 213	Agricultural Finance and Cooperation	2	0	1	3
4	AGS 214	Farm Machinery and Power	1	0	1	2
5	AGS 215	Principles of Seed Technology	1	0	2	3
6	AGS 216	Production Technology for Vegetables and Spices	1	0	1	2
7	AGS 217	Statistical Methods	1	0	1	2
8	AGS 218	Livestock and Poultry Management	3	0	1	4
9	AGS 219	Rural Sociology & Educational Psychology	2	0	0	2
10	AGS101/PHE 110 / AGS 201	NSS/NCC/Physical Education & Yoga Practices	0	1	2	2
						26

L: Lecture; T: Tutorial; P: Practical; Cr: Credit
Semester 4

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 221	Crop Production Technology –II (<i>Rabi Crops</i>)	1	0	1	2
2	AGS 222	Production Technology for Ornamental Crops, MAP and Landscaping	1	0	1	2
3	AGS 223	Renewable Energy and Green Technology	1	0	1	2
4	AGS 224	Manures, Fertilizers and Soil Fertility Management	2	0	1	3
5	AGS 225	Production Technology for Fruit and Plantation Crops	1	0	1	2
6	AGS 226	Farming System & Sustainable Agriculture	1	0	0	1
7	AGS 227	Agricultural Marketing Trade & Prices	2	0	1	3
8	AGS228A	Soil and Water Conservation Engineering	1	0	1	2
9	EVS 212	Environmental Studies and Disaster Management	2	0	1	3
10	AGS102/ PHE130/ AGS202	NSS/NCC/Physical Education & Yoga Practices	0	1	2	2
11	AGS229E/F/G/H	Elective Course#	2	0	1	3
						24

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Scheme of Courses B. Sc. (Hons.) Agriculture
Semester 5

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 311	Principles of Integrated Pest and Disease Management	2	0	1	3
2	AGS 312	Problematic Soils and their Management	2	0	0	2
3	AGS 313	Pests of Crops and Stored Grain and their Management	2	0	1	3
4	AGS 314	Diseases of Field and Horticultural Crops and their Management -I	2	0	1	3
5	AGS 315	Crop Improvement-I (<i>Kharif Crops</i>)	1	0	1	2
6	AGS 316	Entrepreneurship Development and Business Communication	1	0	1	2
7	AGS 317	Geoinformatics and Nano-technology and Precision Farming	1	0	1	2
8	AGS 318	Practical Crop Production – I (<i>Kharif crops</i>)	0	1	2	2
9	AGS 319	Intellectual Property Rights	1	0	0	1
10	AGS310E/F/G/H	Elective Course#	2	0	1	3
						24

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Semester 6

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 320	Rainfed Agriculture & Watershed Management	1	0	1	2
2	AGS 321	Protected Cultivation and Secondary Agriculture	1	0	1	2
3	AGS 322	Diseases of Field and Horticultural Crops and their Management-II	2	0	1	3
4	AGS 323	Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	1	2
5	AGS 324	Management of Beneficial Insects	1	0	1	2
6	AGS 325	Crop Improvement-II (<i>Rabi crops</i>)	1	0	1	2
7	AGS 326	Practical Crop Production –II (<i>Rabi crops</i>)	0	1	4	2
8	AGS 327	Principles of Organic Farming	1	0	1	2
9	AGS 328	Farm Management, Production & Resource Economics	1	0	1	2
10	AGS 329	Principles of Food Science and Nutrition	2	0	0	2
11	AGS330E/F/G/H	Elective Course#	1	0	2	3
						24

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Scheme of Courses B. Sc. (Hons.) Agriculture
Semester 7

S. N.	Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE & AIA)		
	Activities	No. of weeks	Credit Hours
1	General orientation & On campus training by different faculties	1	14
2	Village attachment	8	
	Unit attachment in Univ/ College. KVK/ Research Station Attachment	5	
3	Plant clinic	2	02
	Agro-Industrial Attachment	3	04
4	Project Report Preparation, Presentation and Evaluation	1	
Total weeks for RAWE AIA		20	20

SN.	Paper Code	Course Title	L	T	P	Cr
1	AGS 412	General orientation & On campus training by different faculties Village attachment Unit attachment in Univ/ College. KVK/ Research Station Attachment	0	1	14	14
2	AGS 413	Plant clinic	0	1	2	2
3	AGS 414	Agro-Industrial Attachment	0	1	4	4
						20

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

RAWE Component-I
Village Attachment Training Programme

Sl. No.	Activity	Duration
1	Orientation and Survey of Village	1 week
2	Agronomical Interventions	1 week
3	Plant Protection Interventions	1 week
4	Soil Improvement Interventions (Soil sampling and testing)	1 week
5	Fruit and Vegetable production interventions	1 week
6	Food Processing and Storage interventions	
7	Animal Production Interventions	1 week
8	Extension and Transfer of Technology activities	1 week

RAWE Component -II
Agro Industrial Attachment

Agro- Industrial Attachment: The students would be attached with the agro-industries for a period of 3 weeks to get an experience of the industrial environment and working

- Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks.
- Industries include Seed/Sapling production, Pesticides-insecticides, Post-harvest processing-value addition, Agri-finance institutions, etc.

Activities and Tasks during Agro-Industrial Attachment Programme

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students

Scheme of Courses B.Sc (Hons.) Agriculture

Semester 8

Modules for Skill Development and Entrepreneurship: A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester.

S. No	Paper Code	Course Title	L	T	P	Cr
1	AGS 424 (ELP-1)	Commercial Horticulture	0	1	10	10
2	AGS 425 (ELP-2)	Commercial Apiculture	0	1	10	10
3	AGS 426 (ELP-3)	Mushroom Cultivation Technology	0	1	10	10
4	AGS 427 (ELP-4)	Organic Production Technology	0	1	10	10

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Note: Modules will be offered according to faculty and facilities available in the university.

Elective Courses: A student can select three elective courses out of the following and offer during 4th, 5th and 6th semesters.

S. No	Paper Code	Course Title	L	T	P	Cr
	AGS 229E	Introduction to Protected Cultivation	2	0	1	3
	AGS 229F	Introduction to Mushroom Cultivation	2	0	1	3
	AGS 229G	Introduction to Bee Keeping	2	0	1	3
	AGS 229H	Introduction to Non- Conventional Farming	2	0	1	3
	AGS 310A	Food Safety and Standards	2	0	1	3
	AGS 310D	Micro propagation Technologies	1	0	2	3
	AGS 310E	Principles and Practices of Protected Cultivation	2	0	1	3
	AGS 310F	Principles and practices of mushroom cultivation	2	0	1	3
	AGS 310G	Principles and Practices of Beekeeping	2	0	1	3
	AGS 310H	Principles and Practices of non-conventional farming	2	0	1	3
	AGS 330E	Commercial Protected Cultivation	1	0	2	3
	AGS 330F	Commercial Beekeeping	1	0	2	3
	AGS 330G	Commercial Mushroom Cultivation	1	0	2	3
	AGS 330H	Commercial Non-conventional Farming	1	0	2	3

L: Lecture; T: Tutorial; P: Practical; Cr: Credit

Annexure-3

Examination and Evaluation system is proposed to be implemented as per recommendations of the ICAR

The proposal for examination and evaluation system as per the recommendations of the ICAR was thoroughly discussed in the meeting and the committee decided to opt the examination and evaluation system and minimum percentage of marks for passing a course and degree programme as per the recommendation of ICAR.

NCC/NSS/NSO (Physical Edu.): It is recommended by the committee that these courses should be non- credit courses. For students of agriculture they should be offered during Semesters I to Semester IV. **The grading would be Satisfactory (S) or Unsatisfactory (US).**

Implementation of BSMA recommendations for PG programmes

The revised guidelines of BSMA for PG programmes was discussed in detail and it was decided that the credit load should be as per BSMA recommendation given in table below. Dr. V. K. Kaul, the external expert suggested that Faculty of Agricultural Sciences need to compile guidelines for writing synopsis and thesis as well as other relevant regulations with respect to constitution of advisory committees, submission of thesis, oral examination etc.

	Masters' Programme	Doctoral Programme
(i) Course work		
Major courses	20	12
Minor courses	08	06
Supporting courses	06	05
Common courses	05	–
Seminar	01	02
(ii) Thesis Research	30	75
Total	70	100

Having gone through the curriculum, Dr. Kaul observed that text books for suggested readings should be uniform for all courses, i.e. 4 to 5 text books and 2 e- books each.