

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
P.G. Department of Zoology
Proceedings of the Seventh Meeting of Board of
Studies held on 22-04-2022

The Seventh meeting of the board of studies was held in online mode via Zoom on 22nd April, 2022 at 12:30 pm.

Date: Friday, 22-04-2022

Time: 12:30 PM

Venue: Online meeting via Zoom

The following members have attended meeting and detailed minutes are listed below:

1.	Mrs. Sadhna Tandon , Associate Professor & Head, Dept. of Zoology, KMV, Jalandhar (Chairperson)	Present
2.	Dr. Anish K. Dua , Professor, Department of Zoology, GNDU, Amritsar (University Nominee)	Present
3.	Dr. Sachin Suroshe , Principal Scientist, Biological Control Laboratory, Division of Entomology, IARI, PUSA, New Delhi (Outside Parent University Nominee)	Present
4.	Dr. Chander Prakash , Assistant Professor, Dept. of Life Sciences, IK Gujral Punjab Technical University, Kapurthala (Outside Parent University Nominee)	Present
5.	Mrs. Richa Rajpoot , Aakash Institute, 3 rd floor Oasis Tower, Upside Croma, Guru Nanak Mission Chowk, Jalandhar (Alumni)	Absent
6.	Dr. Archana Saini , Assistant Professor, Dept. Of Zoology, KMV, Jalandhar (Member)	Present
7.	Dr. Mandeep Kaur , Assistant Professor, Dept. Of Zoology, KMV, Jalandhar (Member)	Present

Saini
Archana

The Chairperson Mrs. Sadhana Tandon welcomed the members of Board of Studies. She apprised the members that about the events organised by the department to enhance teaching -learning activities. They were motivated to participate in activities of IIC Innovation Cell. She also apprised the house about the research activities of department and members appreciated the achievement of CURIE grant.

After brief overview, took up the agenda items for deliberation one by one with the permission of committee members.

Agenda

Item: ZOO: 2022: 7: 1: To discuss and approve the minutes of Board of Studies VI (dated 10-04-2021).

Proceedings: The chairperson sent the proceedings of the previous Board of Studies meeting held on 10th April 2021 through email to all the members and were approved by all the members. The Chairperson however again put up the summary of the proceedings for approval of the house and they approved it through Zoom meeting (**Attached herewith as Annexure A**).

The house approved the Item: ZOO: 2022: 7: 1

Item: ZOO: 2022: 7: 2: To discuss Action Taken Report (ATR) of sixth Board of Studies meeting held on 10th April 2021.

Proceedings: ATR of BOS VI

S. No.	Agenda Item	Decision taken in Meeting	Action Taken
Item: Zoo 6: 2021-2	To discuss the proposed syllabus of Zoology in <u>B. Sc. (Medical) Semester I & II</u> under continuous evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class B. Sc. (Medical) Sem I & II was passed by the members of the board in the meeting as it is, as the syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed
Item: Zoo 6: 2021-3	To discuss the proposed syllabus of Zoology in <u>B. Sc.</u>	The proposed syllabus and Course outcomes of class B. Sc. (Medical) Sem III & IV was passed by the	The approved

R. Sinha
Chairperson

	<u>(Medical) Semester III & IV</u> under continuous evaluation System for the session 2021-22.	members of the board in the meeting as it is, as the syllabus and COs was same as that for the session 2020-21	syllabus is executed
Item: Zoo 6: 2021-4	To discuss the proposed syllabus of Zoology in B. Sc. Medical, Semester V & VI under continuous evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class B. Sc. (Medical) Sem V & VI was passed by the members of the board in the meeting. The syllabus and COs were same as that for the session 2020-21.	The approved syllabus is executed
Item: Zoo 6: 2021-5	To discuss the proposed syllabus of M. Sc. Zoology Sem I & II Under Continuous Evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class M. Sc. (Zoology) Sem I & II was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed
Item: Zoo 6: 2021-6	To discuss the proposed syllabus of M. Sc. Zoology Sem III & IV Under Continuous Evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class M. Sc. (Zoology) Sem III & IV was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed
Item: Zoo 6: 2021-7	To discuss the proposed syllabus of paper <u>Biology for Chemists of Sem II</u> for class M. Sc. <u>Chemistry</u> Under	The proposed syllabus and Course outcomes of class M. Sc. Sem II for paper Biology for Chemists was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed

Ravi
Mani

	Continuous Evaluation System for the session 2021-22.		
Item: Zoo 6: 2021-8	To discuss the proposed syllabus of Cell Biology for Class B. Sc. Biotechnology Semester I Under Continuous Evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class B. Sc. (Biotechnology) Sem I for paper Cell Biology was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed
Item: Zoo 6: 2021-9	To discuss the proposed syllabus of <u>Zoology-I</u> for Class B. Sc. Biotechnology Semester II under Continuous Evaluation System for the session 2021-22.	The proposed syllabus and Course outcomes of class B. Sc. (Biotechnology) Sem II for paper Zoology I was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	The approved syllabus is executed.
Item: Zoo 6: 2021-10	To discuss the proposed syllabus of <u>Zoology-II</u> for Class B. Sc. Biotechnology Semester IV under Continuous Evaluation System for the session 2021-22.	It was decided to add 20% internal assessment in all the papers of B.Sc. (Biotechnology) semester IV semester for session 2021-22 under continuous evaluation system.	The approved syllabus is executed.
Item: Zoo 6: 2021-11	To discuss the proposed syllabus of paper of <u>Environmental Studies of Semester III</u> for Class B.Sc.	The proposed syllabus and course outcomes of paper Environmental studies of semester III for class B.Sc. (Medical, Non-Medical, Biotechnology, Computer Science, Home Science)/ B. Com. (Regular,	The approved syllabus is executed

Rishi Mishra

	(Medical, Non-Medical, Biotechnology, Computer Science, Home Science)/ B. Com. (Regular, Hons)/ B. Sc. (Hons) Agriculture, B. Sc. (Hons) Mathematics)/ BBA/ BCA under Continuous Evaluation System for the session 2021-22.	Hons)/ B. Sc. (Hons) Agriculture, B. Sc. (Hons) Mathematics)/ BBA/ BCA was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21.	
Item: Zoo 6: 2021-12	To discuss the proposed syllabus of paper of Environmental Studies of Semester IV for Class B.A. / B.A. (Journalism and Mass Communication) / B. Sc. (Fashion Designing) /B.A (Hons.) English, B. Voc. (Retail Management, Management and Secretarial Practices, Animation, Textile Designing and Apparel Technology, Nutrition, Exercise	The proposed syllabus and Course outcomes of class B.A. / B.A. (Journalism and Mass Communication) / B. Sc. (Fashion Designing) /B.A (Hons.) English, B. Voc. (Retail Management, Management and Secretarial Practices, Animation, Textile Designing and Apparel Technology, Nutrition, Exercise and Health, Beauty & Wellness) of Sem IV was passed by the members of the board in the meeting. The syllabus and COs was same as that for the session 2020-21	The approved syllabus is executed

P. S. Chauhan

	and Health, Beauty & Wellness) under Continuous Evaluation and credit based System for the session 2021-22.		
Item: Zoo 6: 2021-13	To discuss and approve the list of proposed examiners for above stated courses.	All the BOS members approved list of proposed examiners for above stated courses.	List of Examiners was sent to COE Office.
Item: Zoo 6: 2021-14	To discuss research inputs and plans of department for session 2021-22.	Mrs. Sadhana Tandon apprised the committee members about the research activities taken by department. She explained that department has four Ph. D. teachers, one M. Phil, two M. Sc teachers. Faculty members are engaged in quality research as evident from their publications in high impact factor journals of International and National repute. She apprised that Department has all major sophisticated instruments like Stereomicroscopes, Horizontal & Vertical electrophoresis Units, -20 Deep freezer, Autoclave, Water Analysis Kits, MIPS, Gel Documentation system, Thermal cycler, Refrigerated centrifuge (Eppendorf), Nano-Drop new genovano-3 in 1 microvolume spectrophotometer. Department has recently purchased two trinocular with inbuilt tabs/ LCD digital screen, all	Faculty members are engaged in quality research as evident from their publications in high impact factor journals of International and National repute.

Rani

		supported from project grants like DBT star College, CPE & FIST from DST. The faculty members also participate and present their research work in National and International conferences. Teachers also participated in online webinars and FDPs conducted by various institutions. She apprised that four faculty members have applied for research projects under seed money scheme from college and they by involving students, will enhance the research aptitude in students.	
Item: Zoo 6: 2021-15	To discuss teaching methodologies adopted in department and inputs required to upgrade the same.	The teaching methodologies adopted in department were approved by the house.	BOS member appreciated the innovative teaching methodologies adopted by department
Item: Zoo 6: 2021-16	To discuss the outcome of above stated courses and programs.	All the BOS members approved outcome of above stated courses and programmes.	Students will be able to understand their future opportunities

P. Srinivas

Item: Zoo 6: 2021-17	To discuss the course scheme and detailed syllabus for above stated programs.	All the BOS members approved scheme and detailed syllabus of above stated courses and programmes.	The syllabus and course scheme was sent to the COE and implemented
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The house approved the Item: ZOO: 2022: 7: 2

Item: ZOO: 2022: 7: 3: To discuss the proposed syllabus of Zoology in B. Sc. (Medical), Semester I - VI under continuous evaluation System for the session 2022-25.

Proceedings: The syllabus and course outcomes of B. Sc. (Medical) Semester I-VI under continuous evaluation system for session 2022-25, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure B**).

The house approved the Item: ZOO: 2022: 7: 3

Item: ZOO: 2022: 7: 4: To discuss the proposed syllabus of M. Sc. (Zoology) Sem III - IV Under continuous Evaluation System for the session 2022-23.

Proceedings: The syllabus and course outcomes of M. Sc. (Zoology) Semester III-IV under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure C**).

The house approved the Item: ZOO: 2022: 7: 4

Item: ZOO: 2022: 7: 5: To discuss the proposed syllabus of M. Sc. (Zoology) Sem I - IV Under Credit based Evaluation System for the session 2022-24.

Proceedings: Chairperson Mrs. Sadhana Tandon discussed in details the introduction of credit based continuous evaluation grading system (CBCEGS) for M.Sc. Zoology for the session 2022-24. The following points were highlighted and discussed and approved.

- 1. Overall M.Sc Zoology for session 2022-24 will have 111 credits with 103 mandatory and 8 Inter Disciplinary.**
But the credits of Inter disciplinary courses will not be added in calculation of SGPA/CGPA. These will be qualifying courses only grades will be assigned.

Rajni Man

2. The course scheme for credits is as follows:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Zoology)

Session 2022-24

Masters of Sciences (Zoology) Semester-I										
Course Code	Course Name	Course Type	Hours Per Week	Credits	Total Credits	Marks				Examination time (in hours)
						Ext.		CA	Total	
				L		P				
MZOL-1481	Functional Organization of Animals - I	C	4	4-0-0	4	80	-	20	100	3
MZOL-1482	Animal Ecology	C	4	4-0-0	4	80	-	20	100	3
MZOL-1483	Cell Biology	C	4	4-0-0	4	80	-	20	100	3
MZOL-1484	Concepts of Biotechnology	C	4	4-0-0	4	80	-	20	100	3
MZOM-1134	Computer Programming and Data Processing	C	4	2-0-1	3	25	15	10	50	3
MZOP-1485	Practical-I (Functional Organization of Animals-I)	C	6	0-0-3	3	40	-	10	50	3
MZOP-1486	Practical- II (Ecology and Cell Biology)	C	6	0-0-3	3	40	-	10	50	3
IDEC-1101	Effective Communication Skills		3	4-0-0	4	80	-	20	100	3

Praveen Kumar

IDEM-1362	Basic Fundamentals of Music (Vocal)	IDE	3	2-0-2	4	40	40	20	100	3
IDEH-1313	Human Rights and Constitutional Duties	Students can opt any one	3	4-0-0	4	80	-	20	100	3
IDEI-1124	Basics of Computer Applications		3		4					3
IDEI-	Indian Heritage Contribution to the World		3	4-0-0	4	80	-	20	100	3
Total					29				550	

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Zoology)

Session 2022-24

Masters of Sciences (Zoology) Semester-II

Course Code	Course Name	Course Type	Hours Per Week	Credits	Total Credits	Marks				Examination time (in hours)
						Ext.				
						L	P	CA	Total	
MZOL-2481	Functional Organization of Animals – II	C	4	4-0-0	4	80	-	20	100	3
MZOL-2482	Applied Zoology-I (Invertebrates)	C	4	4-0-0	4	80	-	20	100	3
MZOL-2483	Evolution	C	4	4-0-0	4	80	-	20	100	3
MZOL-2334	Biostatistics	C	4	4-0-0	4	40	-	10	50	3
MZOS-2485	Seminar	C	4	0-0-2	2	40	-	10	50	3
MZOP-2486	Practical- III (Functional Organization of Animals –II)	C	6	0-0-3	3	40	-	10	50	3

Ravi Kumar

MZOP-2487	Practical- IV (Evolution and Applied Zoology-I)	C	6	0-0-3	3	40	-	10	50	3
Total					24				550	

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Zoology)

Session 2022-24

Masters of Sciences (Zoology) Semester-III										
Course Code	Course Name	Course Type	Hours Per Week	Credits	Total Credit	Marks				Examination time (in hours)
						Ext.				
						L	P	CA	Total	
MZOL-3481	Research Techniques and Methodology	C	4	4-0-0	4	80	-	20	100	3
MZOL-3482	Developmental Biology-I	C	4	4-0-0	4	80	-	20	100	3
MZOL-3483	General Biochemistry	C	4	4-0-0	4	80	-	20	100	3
MZOL-3484	Applied Zoology-II (Vertebrates)	C	4	4-0-0	4	80	-	20	100	3
MZOP-3485	Practical -V (Research Techniques and Applied Zoology-II)	C	6	0-0-3	3	40	-	10	50	3
MZOP-3486	Practical VI (Developmental Biology and Biochemistry)	C	6	0-0-3	3	40	-	10	50	3

P. Saini
M. Saini

IDEK-3101	Effective Communication Skills	IDC Students can opt any one	3	4-0-0	4	80	-	20	100	3
IDEM-3362	Basic of Music (Vocal)		3	2-0-2	4	40	40	20	100	3
IDEH-3313	Human Rights and Constitutional Duties		3	4-0-0	4	80	-	20	100	3
IDEI-3124	Basics of Computer Applications		3		4					3
IDE-	Indian Heritage: Contribution to the World		3		4	80	-	20	100	3
Total					26				500	

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Zoology)

Session 2022-24

Masters of Sciences (Zoology) Semester-IV										
Course Code	Course Name	Course Type	Hours Per Week	Credits	Total Credits	Marks			Examination time (in hours)	
						Ext.	L	PCA		Total
MZOL-4481	Animal Behavior and Wildlife Conservation	C	4	4-0-0	4	80	-	20	100	3
MZOL-4482	Molecular Genetics	C	4	4-0-0	4	80	-	20	100	3
MZOL-4483	Concepts of Immunology	C	4	4-0-0	4	80	-	20	100	3
MZOL-4484	Developmental Biology- II	C	4	4-0-0	4	80	-	20	100	3
MZOL-4485	Biosystematics	C	4	4-0-0	4	80	-	20	100	3
MZOP-4486	Practical -VII (Animal Behavior and Wildlife & Conservation)		6	0-0-3	3	40	-	10	50	3

P. S. Saini
M. S. Saini

		C							
MZOP-4487	Practical – VIII (Genetics and Biosystematics)	C	6	0-0-3	3	40	10	50	3
MZOP-4488	Project	C	6	3-0-3	6	40	10	50	1
Total					32			600	

4. Following new courses are added with details as follows

Name of course	Course Code	Semester	Credits L-T-P	Marks		
				Th	Pr	CA
Concepts of Biotechnology	MZOL-1484	I	4-0-0	80	20	100
Developmental Biology-I	MZOL-3482	III	4-0-0	80	20	100
Developmental Biology- II	MZOL-4484	IV	4-0-0	80	20	100

(Approved syllabus attached herewith as Annexure D)

3. Examination and Evaluation Policy passed in the Second Meeting of Academic Council Dated 24-08-2018 under Agenda Item (AC 2: 2018: 4 (Annexure C)) for UG and PG Vocational Programmes under Credit Based Continuous Evaluation Grading System (CBCEGS), with modifications approved in the Fourth Meeting of Academic Council dated 23.11.2019 under Agenda Item (AC 4: 2019: 4(v)) will be extended and implemented to all PG Diploma and Degree Programmes.

The detailed syllabus for M. Sc. Zoology under Credit Based Continuous Evaluation Grading System (CBCEGS) for session 2022-24 as discussed and passed in BOS meeting is attached herewith as an **Annexure D**.

The house approved the Item: ZOO: 2022: 7: 5

Item: ZOO: 2022: 7: 6: To discuss the proposed syllabus of paper **Biology for Chemists** of **Sem II** for class **M. Sc. Chemistry** Under Credit based Evaluation System for the session 2022-24.

Proceedings: Chairperson Mrs. Sadhana Tandon discussed start of credit based continuous evaluation grading system for Paper **Biology of Chemists** of **M.Sc. Chemistry** for the session 2022-24.

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The following points were highlighted, discussed and approved (Attached herewith as Annexure-E).

1. The course for session 2022-24 will have 2 credits
2. The course scheme for credits is as follows:

M. Sc. (Chemistry) Sem II										
Course Code	Course Name	Course Type	Hours Per Week	Credits	Total Credits	Marks				Examination time (in hours)
						Ext.		CA	Total	
				L	P	L	P			
MCHL-2057	Biology for Chemists	C	2	2-0-0	2	20	-	5	25	3

The house approved the Item: ZOO: 2022: 7: 6

Item: ZOO: 2022: 7: 7: To discuss the proposed syllabus of Cell Biology for Class B.Sc. **Biotechnology Semester I** under Continuous Evaluation System for the session 2022-23.

Proceedings: The syllabus and course outcomes of Cell Biology for class B. Sc. (**Biotechnology**) **Semester I** under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure F**).

The house approved the Item: ZOO: 2022: 7: 7

Item: ZOO: 2022: 7: 8: To discuss the proposed syllabus of Zoology-I for Class B. Sc. **Biotechnology Semester II** under Continuous Evaluation System for the session 2022-23.

Proceedings: The syllabus and course outcomes of Zoology- I for class B. Sc. (**Biotechnology**) **Semester II** under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure G**).

The house approved the Item: ZOO: 2022: 7: 8

Item: ZOO: 2022: 7: 9: To discuss the proposed syllabus of Zoology-II for Class B. Sc. **Biotechnology Semester IV** under Continuous Evaluation System for the session 2022-23.

R. Sini *M. Pan*

Proceedings: The syllabus and course outcomes of **Zoology- II** for class **B. Sc. (Biotechnology)** Semester IV under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure H**).

The house approved the Item: ZOO: 2022: 7: 9

Item: ZOO: 2022: 7: 10: To discuss the proposed syllabus of Applied Zoology and Food Microbiology for Class **B. Sc. Home Science Semester VI** under Continuous Evaluation System for the session 2022-23.

Proceedings: The syllabus and course outcomes of **Applied Zoology and Food Microbiology** for class **B. Sc. (Home Science) Semester VI** under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure I**).

The house approved the Item: ZOO: 2022: 7: 10

Item: ZOO: 2022: 7: 11: To discuss the proposed syllabus of paper of Environmental Studies of Semester III for Class **B.Sc. (Medical, Non-Medical, Biotechnology, Computer Science, Home Science)/ B. Com. (Regular, Hons)/ B. Sc. (Hons) Agriculture, B. Sc. (Hons) Mathematics/ BBA/ BCA** under Continuous Evaluation System for the session 2022-23.

Proceedings: The syllabus and course outcomes of **Environmental Studies** for class **B.Sc. (Medical, Non-Medical, Biotechnology, Computer Science, Home Science)/ B. Com. (Regular, Hons)/ B. Sc. (Hons) Agriculture, B. Sc. (Hons) Mathematics/ BBA/ BCA** under continuous evaluation system for session 2022-23, was discussed by the members and they approved it without any change (**Approved syllabus attached herewith as Annexure J**).

The house approved the Item: ZOO: 2022: 7: 11

Item: ZOO: 2022: 7: 12: To discuss the proposed syllabus of paper of Environmental Studies of Semester IV for Class **B.A. / B.A. (Journalism and Mass Communication) / B. Sc. (Fashion Designing) / B.A (Hons.) English, B. Voc. (Retail Management, Management and Secretarial Practices, Animation, Textile Designing and Apparel Technology, Nutrition, Exercise and Health, Beauty & Wellness)** under Continuous Evaluation and credit-based System for the session 2022-23.

Proceedings: The syllabus and course outcomes of **Environmental Studies** for class **B.A. / B.A. (Journalism and Mass Communication) / B. Sc. (Fashion Designing) / B.A (Hons.) English, B. Voc. (Retail Management, Management and Secretarial**

[Handwritten signatures]

Practices, Animation, Textile Designing and Apparel Technology, Nutrition, Exercise and Health, Beauty & Wellness) under Continuous Evaluation and credit-based System for session 2022-23, was discussed by the members and they approved it without any change (Approved syllabus attached herewith as Annexure K).

The house approved the Item: ZOO: 2022: 7: 12

Item: ZOO: 2022: 7: 13: To discuss the proposed syllabus of certificate course on Pet keeping Under Credit based Evaluation System for the session 2022-23.

Proceedings: The BOS members were of the view that this course comes under veterinary sciences and a consensus could not be made.

The house rejected the Item: ZOO: 2022: 7: 13

Item: ZOO: 2022: 7: 14: To discuss and approve the list of proposed examiners for above stated courses.

Proceedings: The chairperson discussed the Examiners and Evaluators for above stated courses with the members (Lists attached herewith as Annexure L).

The house approved the Item: ZOO: 2022: 7: 14

Item: ZOO: 2022: 7: 15: To discuss research inputs and plans of department for session 2022-23.

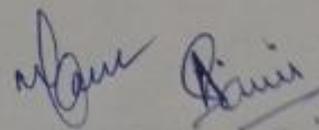
Proceedings: Mrs. Sadhana Tandon apprised the committee members about the research activities taken by department. She explained that department has five Ph. D. teachers, one M. Phil, two M. Sc teachers. Faculty members are engaged in quality research as evident from their publications in high impact factor journals of International and National repute. She apprised that Department has all major sophisticated instruments all supported from project grants like DBT star College, CPE & FIST from DST. Teachers also participated in online webinars, FDPs, Induction and refresher course conducted by various institutions (Attached as Annexure M).

The house highly appreciated the research work of the department including CURIE grant, minor research project by students and seed money projects undertaken by the faculty.

The house approved the Item: ZOO: 2022: 7: 15

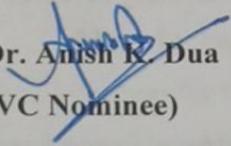
Item: ZOO: 2022: 7: 16: To discuss teaching methodologies adopted in department and inputs required to upgrade the same.

Mrs Sadhana Tandon apprised all members with innovative teaching methodologies adopted by the department. BOS member appreciated the innovative teaching methodologies adopted by department like ICT based teaching as ppts, educational videos, projects & seminars-

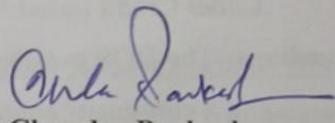


leading to critical & creative thinking, department continued its teaching through blended mode. So, the effectiveness of teaching could be well maintained and all teachers could finish their syllabi in time. Other highlights of department include student- student mentoring, group discussions, student mentoring by teachers & remedial classes for weak students. The Department is well equipped with smart class rooms, e-content and demonstrations for better understanding of concepts. The extension lectures from luminaries across globe is regular feature of department and activities like workshops, power point presentation competitions and educational trips for overall development of students and to create passion for science are regularly organized.

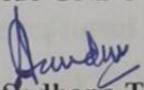
The house approved the (Item: ZOO: 2022: 7.16) teaching methodologies and various activities held in the department to enhance teaching learning process.

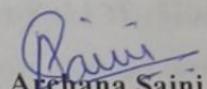

Dr. Anish K. Dua
(VC Nominee)

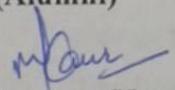
Dr. Sachin Suroshe
(Outside GNDU Nominee)


Dr Chander Prakash
(Outside GNDU Nominee)

Mrs. Richa Rajput
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