

OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.:MU/RO/2019/2330-A

06th June, 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Chemistry

The Board of Studies for the Department of Chemistry is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|--|-------------------|
| 1. Prof. (Dr.) C. K. Sharma, Dean, Faculty of Science & Technology | - Chairman |
| 2. Dr. Bharti Mehta, HOD Chemistry, Govt. MPPG College Chittorgarh | - External Member |
| 3. Dr. B.V. Kabra, HOD Chemistry, MLV, Govt College Bhilwara | - External Member |
| 4. Mr. Giriraj Tailor, Assistant Professor | - Internal Member |
| 5. Ms. Sunita Sharma, Assistant Professor | - Internal Member |
| 6. Mr. Anil Jaiswal | - Alumni |
| 7. Dr. Bhupendra Kumar Sarma, Head & Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

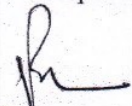
The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.


Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF CHEMISTRY

DATE: 13th June 2019

Minutes of Meeting of Board of Studies

Minutes of the BOS of the Department of Chemistry meeting held on 13-06-2019 at 11.30 AM.

The following members were present: (Annexure 1)

- | | |
|--|-------------------|
| 1. Prof. (Dr.) C. K. Sharma, Dean, Faculty of Science & Technology | - Chairman |
| 2. Dr. Bharti Mehta, HOD Chemistry, Govt. MPPG College Chittorgarh | - External Member |
| 3. Dr. B.V. Kabra, HOD Chemistry, MLV, Govt College Bhilwara | - External Member |
| 4. Mr. Giriraj Tailor, Assistant Professor | - Internal Member |
| 5. Ms. Sunita Sharma, Assistant Professor | - Internal Member |
| 6. Mr. Anil Jaiswal | - Alumni |
| 7. Dr. Bhupendra Kumar Sarma, Head & Assistant Professor | - Convener |

At the outset, Dr. Bhupendra Kumar Sharma, Head of the Department of Chemistry, warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 18-06-2018

Resolution: Minutes of the previous BOS of the Chemistry Department held on 18-06-2018 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener

Resolution: Dr. Bhupendra Kumar Sarma (Head, Department of Chemistry) presented the annual report of the department.

Agenda 3: Revision of Existing Programmes/ Courses

Resolution: BOS committee approved the syllabus with changes in scheme in M.Sc. Programme.

(Annexure 2)

Agenda 4: Introduction of New Programmes/Course

Resolution: As per the recommendation of BOS committee members, the committee approves the introduction of a new program M.Sc. Industrial Chemistry in the upcoming session. (Annexure 3)

- M.Sc (Industrial Chemistry)



BK

Agenda 5: To recommend the approved syllabus to Academic Council.

Resolution:Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.



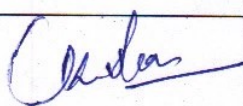
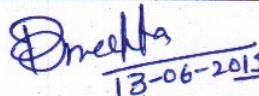
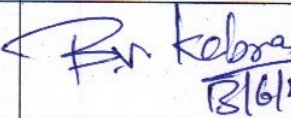
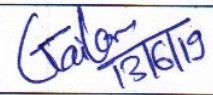
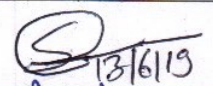
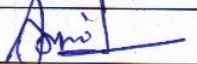
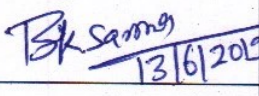
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MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF CHEMISTRY

DATE: 13th June 2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) C. K. Sharma, Dean, Faculty of Science & Technology	Chairman	
2	Dr. Bharti Mehta, HOD Chemistry, Govt. MPPG College Chittorgarh	External Member	 13-06-2019
3	Dr. B.V. Kabra, HOD Chemistry, MLV, Govt. College Bhilwara	External Member	 13/6/2019
4	Mr. Giriraj Tailor, Assistant Professor	Internal Member	 13/6/19
5	Ms. Sunita Sharma, Assistant Professor	Internal Member	 13/6/19
6	Mr. Anil Jaiswal	Alumni	
7	Dr. Bhupendra Kumar Sarma, Head, Chemistry	Convener	 13/6/2019
		Special Invitee (if any)	

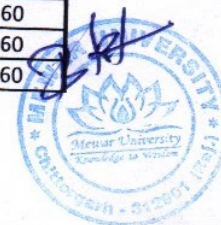
Mewar University, Chittorgarh
Department of Chemistry
Scheme for M.Sc. Chemistry (Specialisation-Industrial Chemistry)
Year: 2020-21
PG-Course

PG-Course						
M. SC. - I SEMESTER					Marks	
S.No.	Code-M	COURSE OPTED	COURSE NAME	Credits	Internal	External (Term-End Examination)
1	CYMS 101		Advanced Inorganic chemistry	4	40	60
2	CYMS 102		Recent Developments in Organic Chemistry-I	4	40	60
3	CYMS 103		Advanced Physical Chemistry	4	40	60
4	CYMS 104		Applications of Mathematics & Computers in Chemistry	4	40	60
5	CYMS 105		Spectroscopic techniques-I	4	40	60
6	CYMS 106	Lab course-I	Laboratory Course-I: (Part-a+Part-b+Part-c) **			
	Part-a		Inorganic Chemistry Lab-I	3	40	60
	Part-b		Organic Chemistry Lab-I	3	40	60
	Part-c		Physical Chemistry Lab-I	3	40	60
Total				29		
M. SC. - II SEMESTER						
1	CYMS 201		Recent Developments in Organic Chemistry-II	4	40	60
2	CYMS 202		Bio-organic Chemistry	4	40	60
3	CYMS 203		Analysis and Separation techniques	4	40	60
4	CYMS 204		Pericyclic and photochemistry	4	40	60
5	CYMS 205		Polymer Chemistry & Organometallic compounds	4	40	60
6	CYMS 206	Lab course-II	Laboratory Course-II: (Part-a+Part-b+Part-c) **			
	Part-a		Inorganic Chemistry Lab-II	3	40	60
	Part-b		Organic Chemistry Lab-II	3	40	60
	Part-c		Physical Chemistry Lab-II	3	40	60
Total				29		
M. SC. - III SEMESTER						
1	CYMS 301		Introduction to Chemical Engineering-I	4	40	60
2	CYMS 302		Introduction to Chemical Engineering-II	4	40	60
3			Professional Elective	4	40	60
4	CYMS 304		Organic Chemical Industries	4	40	60
5	CYMS 305		Research Methodology	4	40	60
6	CYMS 306	Lab course-III (Specialization Organic)	Laboratory Course-III: (Part-a+Part-b+Part-c) **			
	Part-a		Organic preparation and Separation of organic compounds	3	40	60
	Part-b		Spectroscopic Identification & Chromatography Separation of organic compounds	3	40	60
	Part-c		Extraction of natural products and estimation of organic compounds	3	40	60
Total				29		
M. SC. - IV SEMESTER						
2	CYMS 402	Project	(Research work)/Training**	20	200	300
Total				20		
Grand Total				107		
As per MU Need for M.Sc.: 100min. Credits						

As per MU Need for M.Sc.: 100min. Credits

List Of Professional Elective (Any one)

CYMS 303	1	Inorganic Chemical Industries	4	40	60
CYMS-303-1	2	Analytical Methods in Chemistry	4	40	60
CYMS-303-2	3	Instrumental method for chemical analysis	4	40	60
CYMS-303-3	4	Chemistry for Sustainable Development	4	40	60



**OFFICE OF THE REGISTRAR
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)**

Ref. No.: MU/RO/2019/2357-B

10th June 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Agriculture

The Board of Studies for the Department of Agriculture is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|---|-------------------|
| 1. Prof. (Dr.) K L Dangi, Dean, Faculty of Agri. & Vet. Sc. | - Chairman |
| 2. Prof. (Dr.) M. K. Kaushik, Professor, RCA Udaipur | - External Member |
| 3. Prof. (Dr.) B R Ranwa, Professor, RCA Udaipur | - External Member |
| 4. Mr. Gautam Singh Dhaked, Assistant Professor, Agriculture. | - Internal Member |
| 5. Mr. Brijesh Kumar Meena, Assistant Professor, Agriculture | - Internal Member |
| 6. Dr. Vikas Tomar, Assistant Professor, Agriculture. | - Internal Member |
| 7. Dr. Neelu Jain, Associate Professor, Agriculture | - Internal Member |
| 8. Mr. Bhagyawardhan Singh Rathore, Pragya Foundation | - Alumni |
| 9. Dr. D C Kala, Head & Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

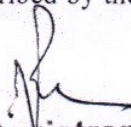
The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute to the task of the meeting with the approval of the President/Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking the convenience of the Chairman in the second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to TA/DA and sitting fees as per the norms prescribed by the Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
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- Coordinator, IQAC Cell.
- Record file.


Registrar
Mewar University
Gangrar, (Chittorgarh)

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF AGRICULTURE

DATE: 14.06.2019

Minutes of Meeting of Board of Studies

Minutes of the BOS of the Department of Agriculture meeting held on 14-06-2019 at 11.30 AM.

The following members were present: (Annexure 1)

- | | |
|---|-------------------|
| 1. Prof. (Dr.) K L Dangi, Dean, Faculty of Agri. & Vet. Sc. | - Chairman |
| 2. Prof. (Dr.) M. K. Kaushik, Professor, RCA Udaipur | - External Member |
| 3. Prof. (Dr.) B R Ranwa Professor, RCA Udaipur | - External Member |
| 4. Mr. Gautam Singh Dhaked, Assistant Professor, Agriculture. | - Internal Member |
| 5. Mr. Brijesh Kumar Meena, Assistant Professor, Agriculture | - Internal Member |
| 6. Dr. Vikas Tomar, Assistant Professor, Agriculture. | - Internal Member |
| 7. Dr. Neelu Jain, Associate Professor, Agriculture | - Internal Member |
| 8. Mr. Bhagyawardhan Singh Rathore, Pragma Foundation | - Alumni |
| 9. Dr. D C Kala, Head, Agriculture | - Convener |

At the outset, Dr. D. C. Kala, Head of the Department of Agriculture, warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 06-07-2018

Resolution: Minutes of the previous BOS of the Agriculture Department held on 06-07-2018 were discussed and approved.

Agenda 2: It is proposed to start M.Sc. Agriculture (Agronomy) in the next coming session i.e. 2019-20.

Resolution: The BOS committee approve the syllabus and scheme of M.Sc Agriculture (Agronomy) for the upcoming session 2019-20. The courses and scheme are enclosed here. (Annexure 2)

Agenda 3: To recommend the approved syllabus to Academic Council.

Resolution: After the approval and discussions during the Board of Studies, the courses. Would be put up before Academic Council, to be held shortly.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

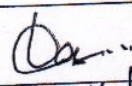
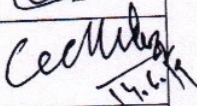
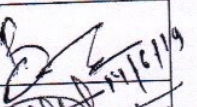
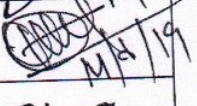
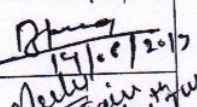
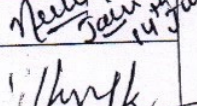
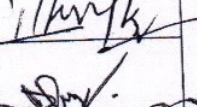
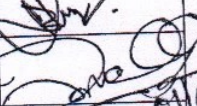
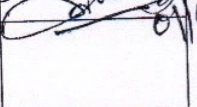


MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF AGRICULTURE

DATE: 14.06.2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) K L Dangi, Dean, Faculty of Agri. & Vet. Sc.	Chairman	
2	Prof. (Dr.) M. K. Kaushik, Professor, RCA Udaipur	External Member	 14.6.19
3	Prof. (Dr.) B R Ranwa Professor, RCA Udaipur	External Member	 14/6/19
4	Mr. Gautam Singh Dhaked, Assistant Professor,	Internal Member	 14/6/19
5	Mr. Brijesh Kumar Meena, Assistant Professor	Internal Member	 14/6/2019
6	Dr. Neelu Jain, Associate Professor	Internal Member	 14 June 2019
7	Dr. Vikas Tomar, Assistant Professor, Agriculture	Internal Member	
8	Mr. Bhagyawardhan Singh Rathore, Pragya Foundation	Alumni	
9	Dr. D C Kala, Head, Agriculture	Convener	 14/06/19
		Special Invitee (if any)	

Semester wise Distribution of Courses for M.Sc. in Agronomy

As per ICAR Minimum Credits required for PG Courses

- | | |
|------------------------------|--------------|
| 1. Major Courses | : 20 Credits |
| 2. Minor Courses | : 8 Credits |
| 3. Supporting Courses | : 6 Credits |
| 4. Common Compulsory Courses | : 5 Credits |
| 5. Master Research | : 30 credits |

Semester -I

Course Code	Course title	Credit Hours (Th.+Pr.)
AGRON 501	Modern Concepts in Crop Production	3 (3+0)
AGRON 503	Principles and Practices of Weed Management	3(2+1)
AGRON 504	Principles and Practices of Water Management	3(2+1)
CC-501	Library and Information Services	1(0+1)
CC-504	Basic Concepts in Laboratory Techniques	1(0+1)
MCA 512	Information Technology in Agriculture	2 (1+1)
AGM 501	Fundamentals of agriculture meteorology	3(2+1)
	Total Credits	16 (10+6)

Semester-II

Course Code	Course title	Credit Hours (Th.+Pr.)
AGRON 502*	Principles and practices of soil fertility and nutrient management	3(2+1)
AGRON 507	Agronomy of oilseed, fibre and sugar crops	3(2+1)
SOIL 505	Soil erosion and conservation	3(2+1)
CC 505	Agricultural Research, Research Ethics and Rural Development Programmes	1(1+0)
CC 502	Technical Writing and Communications Skills	1(0+1)
STAT 511	Experimental Designs	3(2+1)
	Total Credits	14(9+5)

Semester-III

Course Code	Course title	Credit Hours (Th.+Pr.)
AGRON 511	Cropping System and Sustainable Agriculture	2(1+1)
AGRON 513	Principles and practices of organic farming	3(2+1)
CC 503	Intellectual Property and its management in Agriculture	1(1+0)
MCA 511	Introduction to Communication Technologies, Computer Networking and Internet	2(1+1)



(Signature)
Pratim Singh Shekhar

SOIL 511	Management of problematic soils and water	*-2(1+1)
AGRON 560	Master Research (0+15) Non-Gradial	Satisfactory/Non-Satisfactory
	Total Credits	10(6+4), 15 Non-Gradial

Semester-IV

Course Code	Course title	Credit Hours (Th.+Pr.)
AGRON 550	Master Seminar	1(1+0)
AGRON 560	Master Research 15(0+15) Non-Gradial	Satisfactory/Non-Satisfactory
	Total Credits	1(0+1), 15 Non-Gradial



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OGPA Evaluation System

Degree	Percentage of Marks Obtained	Conversion into Points
All	100	10 Points
	90 to <100	9 to <10
	80 to <90	8 to <9
	70 to <80	7 to <8
	60 to <70	6 to <7
	50 to <60	5 to <6
	<50 (Fail)	<5
	Eg. 80.76	8.076
	43.60	4.360
	72.50 (but shortage in attendance)	Fail (1 point)
OGPA		Division
5.000 – 5.999		Pass
6.000 – 6.999		II division
7.000 – 7.999		I division
8.000 and above		I division with distinction

GPA = $\frac{\text{Total points scored}}{\text{Total credits (for 1 semester)}}$

CGPA = $\frac{\sum \text{Total points scored}}{\text{Course credits}}$

OGPA = $\frac{\sum \text{Total points scored (after excluding failure points)}}{\text{Course credits}}$

% of Marks = $\text{OGPA} \times 100/10$



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OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/2332-A

Date: 07/06/2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of History

The Board of Studies for the Department of History is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

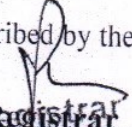
- 1) Prof. (Dr.) Chitrlekha Singh, Dean, Faculty of Humanities, Social Sciences & Fine arts
- Chairman
- 2) Mr. Narendra Kumar Singh, Assistant Professor, Government College, Jaitaran, Pali
- External Member
- 3) Prof.(Dr.) Jivan Singh Kharakwal, Director, Sahitya Sansthan, JNRV, Udaipur
- External Member
- 4) Dr. Mahesh Chandra Dubey, Associate Professor
- Internal Member
- 5) Dr. Prashant Singh Rathore, Associate Professor
- Internal Member
- 6) Dr. Sonia Singla, Head & Assistant Professor
- Convener

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the first week of July 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.


Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

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- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF HISTORY

DATE: 04/07/2019

Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of History was held on 04 July 2019 in Room No 135 at 11:00 am onwards to approve the new/changes in curriculum and syllabus revision for session 2019-20.

The following members were present (Annexure 1)

- 1) Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Sciences & Fine arts
- Chairman
- 2) Mr. Narendra Kumar Singh, Assistant Professor, Government College, Jaitaran, Pali
- External Member
- 3) Prof.(Dr.) Jivan Singh Kharakwal, Director, Sahitya Sansthan, JNRV, Udaipur
- External Member
- 4) Dr. Mahesh Chandra Dubey, Associate Professor
- Internal Member
- 5) Dr. Prashant Singh Rathore, Associate Professor
- Internal Member
- 6) Dr. Sonia Singla, Head & Assistant Professor
- Convener

Dr. Sonia Singla (Head & Assistant Professor) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting

Agenda: 1 Introduction of New Programme/Courses to be added.

Resolution: As per the recommendation of the members of the BOS committee, it is decided to start a new programme M.A. History in the upcoming session 2019-20. (Annexure 2)

- M.A. (History)

Agenda: 2 To recommend the approved syllabus to Academic Council.

Resolution: Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.


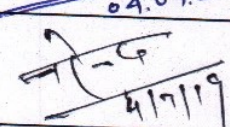

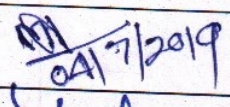
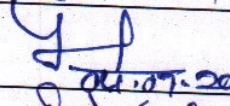
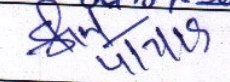
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MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)
DEPARTMENT OF HISTORY

DATE: 04/07/2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Science & Fine arts	Chairman	 04.07.2019
2	Mr. Narendra Kumar Singh, Assistant Professor, Government College, Jaitaran, Pali	External Member	 4/7/19
3	Prof. (Dr.) Jivan Singh Kharakwal, Director, Sahitya Sansthan, JNRV, Udaipur	External Member	 04/07/2019
4	Dr. Mahesh Chandra Dubey, Associate Professor	Internal Member	 04/7/2019
5	Dr. Prashant Singh Rathore, Associate Professor	Internal Member	 04.07.2019
6	Dr. Sonia Singla, Head & Assistant Professor	Convener	 4/7/19

SEMESTER: I							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA-HIS-101	Historiography : Concept and Method - Part I	3+1+0	4.0	30	10	60	100
MA-HIS-102	Political History of India Part I (1206 to 1526)	3+1+0	4.0	30	10	60	100
MA-HIS-103	Political History of India Part I (1526 to 1605)	3+1+0	4.0	30	10	60	100
MA-HIS-104	Political History of India Part I (1605 to 1707)	3+1+0	4.0	30	10	60	100
MA-HIS-105	History of Indian Freedom Movement (1857-1947AD) Part I	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: II							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA-HIS-201	Historiography : Concept and Method -Part II	3+1+0	4.0	30	10	60	100
MA-HIS-202	Political History of India Part II (1206 to 1526)	3+1+0	4.0	30	10	60	100
MA-HIS-203	Political History of India Part II (1526 to 1605)	3+1+0	4.0	30	10	60	100
MA-HIS-204	Political History of India Part II (1605 to 1707)	3+1+0	4.0	30	10	60	100
MA-HIS-205	History of Indian Freedom Movement (1857-1947AD) Part II	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500



Dr. Soma Singh

SEMESTER: III							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA-HIS-301	Twentieth Century World- Part I	3+1+0	4.0	30	10	60	100
MA-HIS-302	History of Indian culture Part I (1200 to 1700)	3+1+0	4.0	30	10	60	100
MA-HIS-303	Political History of India Part I (1740 to 1805)	3+1+0	4.0	30	10	60	100
MA-HIS-304	Political History of India Part I (1805 to 1857)	3+1+0	4.0	30	10	60	100
MA-HIS-305	History of Indian Freedom Movement (1853-1947AD) Part 3	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: IV							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA-HIS-401	History of Indian culture Part II (1200 to 1700)	3+1+0	4.0	30	10	60	100
MA-HIS-402	Political History of India Part II (1740 to 1805)	3+1+0	4.0	30	10	60	100
MA-HIS-403	Political History of India Part II (1805 to 1857)	3+1+0	4.0	30	10	60	100
MA-HIS-404	History of Indian Freedom Movement (1853-1947AD) Part 4	3+1+0	4.0	30	10	60	100
MA-HIS-405	Dissertation	0+4+0	4.0	00	00	00	100
	Total	12+8+0	20				500



Dr. Suresh Singh

**OFFICE OF THE REGISTRAR
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)**

Ref. No.: MU/RO/2019/2703-A

6th May 2019

OFFICE ORDER

Sub.: Constitution of Board of Studies for Department of Political Science

The Board of Studies for the Department of Political Science is constituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|---|-------------------|
| 1) Prof. (Dr.) Chitralkha Singh, Dean, Humanities, Social Science & Fine Arts | - Chairman |
| 2) Dr. Nalin Singh Panwar, Assistant Professor, Vikram University Ujjain | - External Member |
| 3) Prof. (Dr.) G.K. Sharma, Vikram University, Ujjain | - External Member |
| 4) Mrs. Maya Galav, Assistant Professor | - Internal Member |
| 5) Dr. M.C. Dubey, Associate Professor | - Internal Member |
| 6) Dr. Braham Prakash Yadav, Assistant Professor & Head | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

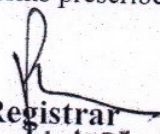
The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the Second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.


**Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)**

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF POLITICAL SCIENCE

DATE: 14.06.2019

Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of Political Science was held on 14th June 2019 in Room No. 135 at 11:00 am onwards to approve the new curriculum and syllabus for session 2019-20.

The following members were present: (Annexure 1)

- 1) Prof. (Dr.) Chitralkha Singh, Dean, Humanities, Social Science & Fine Arts - Chairman
- 2) Dr. Nalin Singh Panwar, Assistant Professor, Vikram University, Ujjain - External Member
- 3) Prof. (Dr.) G.K. Sharma, Vikram University, Ujjain - External Member
- 4) Mrs. Maya Galav, Assistant Professor - Internal Member
- 5) Dr. M.C. Dubey, Associate Professor - Internal Member
- 6) Dr. Braham Prakash Yadav, Assistant Professor & Head - Convener

Dr. Braham Prakash Yadav (Head, Department of Political Science) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: Introduction of New Programmes/Course

Resolution:

The BOS committee members decided that a new programme M.A. Political Science will be started in the upcoming session 2019-20. The detailed syllabus and scheme are enclosed here as (Annexure 2)

- M.A. Political Science

Agenda 2: To recommend the approved syllabus to Academic Council.

Resolution: Members of the Board of Studies approved the syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

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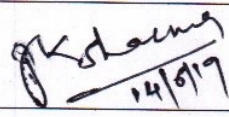
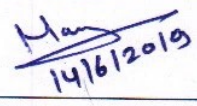

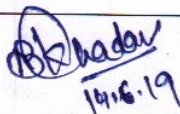


MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF POLITICAL SCIENCE

DATE: 14.06.2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) Chitralkha Singh, Dean, Humanities, Social Science & Fine Arts	Chairman	 14.6.2019
2	Dr. Nalin Singh Panwar, Assistant Professor, Vikram University Ujjain	External Member	 14/6/2019
3	Prof. G.K. Sharma, Vikram University, Ujjain	External Member	 14/6/19
4	Mrs. Maya Galav, Assistant Professor	Internal Member	 14/6/2019
5	Dr. M.C. Dubey, Associate Professor	Internal Member	
6	Dr. Braham Prakash Yadav, Assistant Professor	Convener	 14.6.19

SEMESTER: I							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MAPL-101	INTERNATIONAL RELATIONS	3+1+0	4.0	30	10	60	100
MAPL-102	COMPARATIVE POLITICS	3+1+0	4.0	30	10	60	100
MAPL-103	PRINCIPLES OF PUBLIC ADMINISTRATION	3+1+0	4.0	30	10	60	100
MAPL-104	POLITICAL THOUGHT (ANCIENT AND MEDIEVAL)	3+1+0	4.0	30	10	60	100
MAPL-105	INTERNATIONAL LAW (PEACE)	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: II							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MAPL-201	INTERNATIONAL POLITICS	3+1+0	4.0	30	10	60	100
MAPL-202	POLITICAL SOCIOLOGY	3+1+0	4.0	30	10	60	100
MAPL-203	ISSUES IN INDIAN POLITICS	3+1+0	4.0	30	10	60	100
MAPL-204	POLITICAL THOUGHT (MODERN)	3+1+0	4.0	30	10	60	100
MAPL-205	INTERNATIONAL LAW (WAR)	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500



[Signature]
Dr. Santa Singh

SEMESTER: III							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MAPL-301	MODERN INDIAN SOCIAL AND POLITICAL THOUGHT	3+1+0	4.0	30	10	60	100
MAPL-302	CONTEMPORARY PROBLEMS OF INDIAN DEMOCRACY	3+1+0	4.0	30	10	60	100
MAPL-303	INTERNATIONAL ORGANISATION	3+1+0	4.0	30	10	60	100
MAPL-304	INTERNATIONAL POLITICS IN WEST ASIA	3+1+0	4.0	30	10	60	100
MAPL-305	FOREIGN POLICY OF INDIA	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: IV							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MAPL-401	FEDERALISM AND UNION-STATE RELATIONS IN INDIA	3+1+0	4.0	30	10	60	100
MAPL-402	RESEARCH METHODOLOGY	3+1+0	4.0	30	10	60	100
MAPL-403	GLOBAL PEACE AND SECURITY	3+1+0	4.0	30	10	60	100
MAPL-404	CONTEMPORARY POLITICAL IDEOLOGIES	3+1+0	4.0	30	10	60	100
MAPL-405	Dissertation	0+4+0	4.0	00	00	00	100
	Total	12+8+0	20				500



Dr. Sanku Singh

OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/2327-A

06th June 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Economics

The Board of Studies for the Department of Economics is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|---|-------------------|
| 1) Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Sciences & Fine Arts | - Chairman |
| 2) Prof. (Dr.) Vijay Veer Singh, University of Rajasthan, Jaipur | - External Member |
| 3) Prof. (Dr.) Pardeep Punjabi, JNRV, Udaipur. | - External Member |
| 4) Prof. (Dr.) A.K Jha, Professor | - Internal Member |
| 5) Dr. Sonia Singla, Head & Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

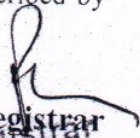
The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.


Registrar
Mewar University
Gangrar, (Chittorgarh)

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF ECONOMICS

DATE: 12.06.2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Economics was held on 12th June 2019 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20.

- | | |
|---|-------------------|
| 1) The Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Sciences & Fine Arts | - Chairman |
| 2) Prof. (Dr.) Vijay Veer Singh, University of Rajasthan, Jaipur | - External Member |
| 3) Prof. (Dr.) Pardeep Punjabi, JNRV, Udaipur. | - External Member |
| 4) Prof. (Dr.) A.K Jha, Professor | - Internal Member |
| 5) Dr. Sonia Singla, Head & Assistant Professor | - Convener |

Dr. Sonia Singla, (Head, Department of Economics) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: Introduction of New Programme/Courses to be added.

Resolution: As per the recommendation of the members of the BOS committee, it is decided to start a new program M.A., Economics from the upcoming session 2019-20.(Annexure 2)

- M.A. Economics

Agenda 2: Any other suggestions by BOS Committee.

Resolution:

- The BOS committee also decided to offer research work and participation of students in conferences and seminar.

Agenda 3: To recommend the approved syllabus to Academic Council

Resolution: Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

[Signature]

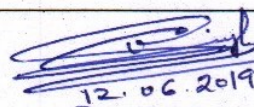
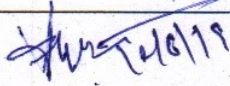
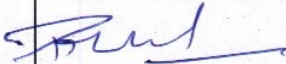



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF ECONOMICS

DATE :12.06.2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Sciences & Fine Arts	Chairman	 12.06.2019
2	Dr. Sonia Singla, Head & Assistant Professor	Convener	 12/6/19
3	Prof. (Dr.) Vijay Veer Singh, Rajasthan University, Jaipur	External Member	 12/6/19
4	Prof. (Dr.) Pardeep Punjabi, JNRV, Udaipur	External Member	
5	Prof. (Dr.) A.K .Jha, Professor	Internal Member	

MEWAR UNIVERSITY

M.A. Economics - 1st Semester

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Internal Assessment/ Evaluation		External Examination/ Viva- Voce	Total Marks
			L	T	P		Mid Term	Teachers Evaluation		
1	MA-1.1	Micro Economic-I	4	0	0	4	30	10	60	100
2	MA-1.2	Public Economics	4	0	0	4	30	10	60	100
3	MA-1.3	Macro Economics	4	0	0	4	30	10	60	100
4	MA-1.4	Indian Economics Evaluation & problems	4	0	0	4	30	10	60	100
6	MA-1.5	Mathematics For Economic Analysis	4	0	0	4	30	10	60	100
Total						20				500

M.A. Economics - 2nd Semester

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Internal Assessment/ Evaluation		External Examination/ Viva- Voce	Total Marks
			L	T	P		Mid Term	Teachers Evaluation		
1	MA-2.1	Micro economics II	4	0	0	4	30	10	60	100
2	MA-2.2	Advanced macro Economics	4	0	0	4	30	10	60	100
3	MA-2.3	Money & Banking	4	0	0	4	30	10	60	100
4	MA-2.4	International Trade	4	0	0	4	30	10	60	100
5	MA-2.5	Quantitative Techniques in Economics	4	0	0	4	30	10	60	100
Total						20				500

M.A. Economics - 3rd Semester



Signature: _____
Date: _____

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Internal Assessment/ Evaluation		External Examination/ Viva- Voce	Total Marks
			L	T	P		Mid Term	Teachers Evaluation		
1	MA-3.1	Economic Growth & Development	4	0	0	4	30	10	60	100
2	MA-3.2	Computer applications & programming in economics	4	0	0	4	30	10	60	100
3	MA-3.3	Research Methodology	4	0	0	4	30	10	60	100
4	MA-3.4	Elective Paper 1st of Group I	4	0	0	4	30	10	60	100
5	MA-3.5	Elective Paper 2nd of Group I	4	0	0	4	30	10	60	100
Total						20				500

M.A. Economics - 4th Semester										
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Internal Assessment/ Evaluation		External Examination/ Viva- Voce	Total Marks
			L	T	P		Mid Term	Teachers Evaluation		
1	MA-4.1	Growth, Development & planning	4	0	0	4	30	10	60	100
2	MA-4.2	Environmental Economics	4	0	0	4	30	10	60	100
3	MA-4.3	Elective Paper 3rd of Group II	4	0	0	4	30	10	60	100
4	MA-4.4	Elective Paper 4th of Group II	4	0	0	4	30	10	60	100
5	MA-4.5	Dissertation Report & Viva - Voce	2	0	8	6	30	10	60	100
Total						22				500

Elective Papers	
Group I	
1	Paper I
	Economic of Insurance I



Dr. S. S. Singh

OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/2328-A

Date: 06/06/2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Geography

The Board of Studies for the Department of Geography is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|--|------------------|
| 1. Prof. (Dr.) Chitralekha Singh, Dean, Faculty of Humanities, Social Sciences & Fine Arts | -Chairman |
| 2. Dr. Road Singh Deora, Assistant Professor, Dronacharya College, Bhindar | -External Member |
| 3. Ms. Varsha Chundawat, UCSSH, MLSU, Udaipur | -External Member |
| 4. Dr. Mahesh Chandra Dubey, Associate Professor | -Internal Member |
| 5. Dr. Prashant Singh Rathore, Assistant Professor | -Internal Member |
| 6. Dr. Sonia Singla, Head & Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the first week of July 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.


Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF GEOGRAPHY

DATE: 02/07/2019

Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of Geography was held on 02nd July 2019 in Room No.135 at 11:00 am onwards to approve the new/changes in curriculum and syllabus revision for session-2019-20.

The following members were present: **(Annexure 1)**

- | | |
|---|-------------------|
| 1. Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Sciences & Fine Arts | -Chairman |
| 2. Dr. Road Singh Deora, Assistant Professor, Dronacharya College, Bhindar | -External Member |
| 3. Ms. Varsha Chundawat, UCSSH, MLSU, Udaipur | -External Member |
| 4. Dr. Mahesh Chandra Dubey, Associate Professor | -Internal Member |
| 5. Dr. Prashant Singh Rathore, Assistant Professor | - Internal Member |
| 6. Dr. Sonia Singla, Head & Assistant Professor | - Convener |

Agenda 1: Introduction of New Programme/Course

~~Dr. Sonia Singla, Head & Assistant Professor, Department of Geography, Mewar University, Chittorgarh, (Raj.)~~
by the Mewar University.


Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

1. P.S. to Hon'ble Vice-Chancellor for forwarding to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

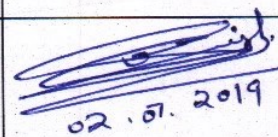
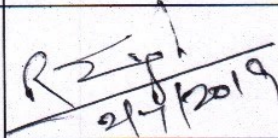
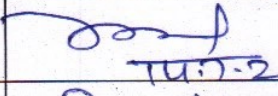
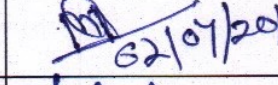
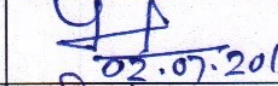
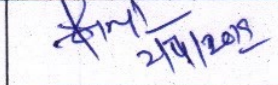




MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)
DEPARTMENT OF GEOGRAPHY

DATE:02/07/2019

Annexure 1: Attendance Sheet

S No.	Name & Designation	Designation	Signature
1	Prof. (Dr.) Chitralekha Singh, Dean, Faculty Of Humanities, Social Science & Fine Arts	Chairman	 02.07.2019
2	Dr. Road Singh Deora Assistant Professor, Dronacharya College, Bhindar	External Member	 21/7/2019
3	Ms. Varsha Chundawat UCSSH, MLSU, Udaipur	External Member	 14.7.21
4	Dr. Mahesh Chandra Dubey Associate Professor	Internal Member	 02/07/2019
5	Dr. Prashant Singh Rathore Assistant Professor	Internal Member	 02.07.2019
6	Dr. Sonia Singla Head & Assistant Professor	Convener	 2/7/2019

SEMESTER: I

Course Code	Course Title	Contact Hours/ per week			Credit Hours	End Term Exam I	Teachers Evaluation	End Term Exam II	Internal Practical	External Viva- Voce	Total Marks
		L	T	P							
GEO-MA-111	Environmental Geography- Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-112	Geographical thought and Methodology Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-113	Geomorphology Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-114	Economic Geography Part I	3	1	2	5.0	30	10	60	20	30	150
	Total	12	4	8	20						600

SEMESTER: II

Course Code	Course Title	Contact Hours/ per week			Credit Hours	End Term Exam I	Teachers Evaluation	End Term Exam II	Internal Practical	External Viva- Voce	Total Marks
		L	T	P							
GEO-MA-211	Environmental Geography Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-212	Geographical thought and Methodology Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-213	Geomorphology Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-214	Economic Geography Part II	3	1	2	5.0	30	10	60	20	30	150
	Total	12	4	8	20						600



*Final
DR. Soma Singh*

SEMESTER: III

Course Code	Course Title	Contact Hours/ per week			Credit Hours	End Term Exam I	Teachers Evaluation	End Term Exam II	Internal Practical	External Viva- Voce	Total Marks
		L	T	P							
GEO-MA-311	Climatology, Meteorology & Oceanography Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-312	Comprehensive Geography of India Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-313	Urban Geography Part I	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-314	Population Geography Part I	3	1	2	5.0	30	10	60	20	30	150
	Total	12	4	8	20						600

SEMESTER: IV

Course Code	Course Title	Contact Hours/ per week			Credit Hours	End Term Exam I	Teachers Evaluation	End Term Exam II	Internal Practical	External Viva- Voce	Total Marks
		L	T	P							
GEO-MA-411	Climatology, Meteorology & Oceanography Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-412	Comprehensive Geography of India Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-413	Urban Geography Part II	3	1	2	5.0	30	10	60	20	30	150
GEO-MA-414	Dissertation	3	1	2	5.0	30	10	60	20	30	150
	Total	12	4	8	20						600



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DR. Soma Singh

OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/2727

01th August 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Education

The Board of Studies for the Department of Education is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

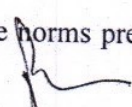
- | | |
|--|-------------------|
| 1) Prof. (Dr.) C. K. Sharma, Dean Academics | - Chairman |
| 2) Dr. Mahesh Chandra Dubey, Assistant Professor | - Internal Member |
| 3) Sh. S. L. Tailor, Assistant Professor | - Internal Member |
| 4) Dr. Pooja Gupta, Associate Professor | - Internal Member |
| 5) Prof. (Dr.) M.P. Sharma, Ex. Director, Vidhya Bhawan, Udaipur | - External Member |
| 6) Dr. M. K. Tiwari, Mewar Girls Collge of TT, Chittorgarh | - External Member |
| 7) Prof. (Dr.) Aruna Dubey, Head & Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the second week of August 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.


Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF EDUCATION

DATE: 08.08.2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Education, Faculty of Education and Psychology was held on 08th August 2019 in Room No. 135 at 10:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20.

The following members were present: **(Annexure 1)**

- | | |
|--|-------------------|
| 1) Prof. (Dr.) C. K. Sharma, Dean Academics | - Chairman |
| 2) Dr. Mahesh Chandra Dubey, Assistant Professor | - Internal Member |
| 3) Sh. S. L. Tailor, Assistant Professor | - Internal Member |
| 4) Dr. Pooja Gupta, Associate Professor | - Internal Member |
| 5) Prof. (Dr.) M.P. Sharma, Ex. Director, Vidhya Bhawan, Udaipur | - External Member |
| 6) Dr. M. K. Tiwari, Mewar Girls Collge of TT, Chittorgarh | - External Member |
| 7) Prof. (Dr.) Aruna Dube, Head & Professor | - Convener |

Dr. Aruna Dube (Head, Dept. of Education) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 13-06-2016

Resolution: Minutes of the previous BOS of the Education department held on 13-06-2016 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener

Resolution: Dr. Aruna Dubey (Head, Dept. of Education) presented departmental activities conducted related to curricular development, faculty development and educational collaboration were presented.

Agenda 3: Review in any Program/Course

Resolution: No changes were made to the approved scheme and syllabus of the course MA (Education).



Agenda 4: Introduction of New Programmes/Course

Resolution: The Syllabus and Scheme approved by the expert for the programme of B.Ed. 1st Year and 2nd Year is designed according to the norms of NCTE. **(Annexure 2)**

- Each paper is distributed in five units in 1st Year.
- Each compulsory paper is distributed in five units and each of the pedagogy papers is distributed in three units in 2nd Year.
- Activities of the Preparation of TLM and Power Point Presentation have been preferred in Assignment.
- On the suggestions of the experts, the contents are designed by the Board of Studies Members considering the various aspects and need of the society to understand the human behaviour properly.
- The members appreciated the contents of the syllabus and it was recommended to Academic Council for further action.
- Chairperson appreciates the member of Board of Studies who contributes to prepare the syllabus.

Agenda 5: To recommend the approved syllabus to Academic Council.

Resolution: Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

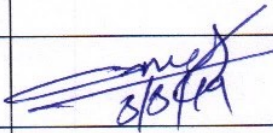
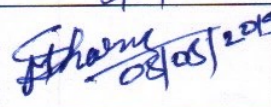

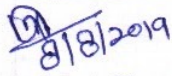

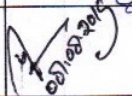
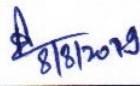


MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF EDUCATION

DATE: 08.08.2019

Annexure 1: Attendance Sheet

S.NO.	Name& Designation	Designation in BOS	Signature
1	Prof. (Dr.) C. K. Sharma, Dean Academics	Chairman	
2	Prof. (Dr.) M.P. Sharma, Ex. Director, Vidhya Bhawan, Udaipur	External Member	
3	Dr. M. K. Tiwari, Mewar Girls Collge of TT, Chittorgarh	External Member	
4	Dr. Mahesh Chandra Dubey, Assistant Professor	Internal Member	
5	Sh. S. L. Tailor, Assistant Professor	Internal Member	
6	Dr. Pooja Gupta, Associate Professor	Internal Member	
7	Prof. (Dr.) Aruna Dube, Head & Professor	Convener	



DEPARTMENT OF EDUCATION
(Faculty of Education)

SCHEME & SYLLABUS

(Session - 2019-20, 2020-21)

Course: B.Ed.

(Two Academic Years)



MEWAR UNIVERSITY
N.H. 79, GANGRAR, CHITTORGARH
RAJASTHAN – 312901 (INDIA)



7. THE CURRICULAR DETAILS FOR TWO YEARS ANNUAL DISTRIBUTION OF THE COURSES

B.Ed. I-Year

Course	Paper Code	Nomenclature	Scheme
Course 1	B.Ed. 101	Childhood and Growing up	100 Marks (80+20)
Course 2	B.Ed. 102	Contemporary India and Education (Including Gender, School and Society)	100 Marks (80+20)
Course 3	B.Ed. 103	Learning and Teaching	100 Marks (80+20)
Course 4	B.Ed. 104	Language across the curriculum (Including Reading and Reflecting on the texts)	100 Marks (80+20)
Course 5	B.Ed. 105-127	Pedagogy of School Subject (Including Understanding, discipline and Subject 1 st) Part I	100 Marks (80+20)
Course 6	B.Ed. 105-127	Pedagogy of School Subject (Including Understanding, discipline and Subject 2 nd) Part II	100 Marks (80+20)
Course 7	B.Ed. 128	Drama and Art in Education (Internal Assessment)	50 Marks
Course 8	B.Ed. 129	Critical Understanding of ICT (Internal and External Assessment)	100 Marks (50 Internal + 50 External)
Course 9	B.Ed. 130	Open Air Session SUPW Camp (Internal Assessment)	50 Marks
Course10	B.Ed. 131	School Internship Phase I (4 Weeks) Pre Practice, Practice Teaching, Engagement with the field: Task and assignment for course 5 and 6 (Internal Assessment)	200 Marks
Course11	B.Ed. 132	External Assessment (One Lesson of Pedagogy of a School Subject)	100 Marks
		Total	1100 Marks

B.Ed. II-Year

Course	Paper Code	Nomenclature	Scheme
Course12	B.Ed. 201-223	Pedagogy of School Subject (First)- Part II	50 Marks (40+10)
Course13	B.Ed. 201-223	Pedagogy of School Subject (Second) - Part II	50 Marks (40+10)
Course14	B.Ed. 224	Knowledge and Curriculum	100 Marks (80+20)
Course15	B.Ed. 225	Assessment for learning	100 Marks (80+20)
Course16	B.Ed. 226	Educational Management and Creating an Inclusive School	100 Marks (80+20)
Course17	B.Ed. 227	Understanding the Self (Internal Assessment)	50 Marks
Course18	B.Ed. 228	Optional Course * (Any one) 1. Vocational/Work education 2. Health and Physical Education	50 Marks (40+10)

		3. Peace Education 4. Guidance and Counseling 5. Innovations and Action Research	
Course19	B.Ed. 229	School Internship (Phase II, 16 Weeks) (Internal Assessment) Engagement with the Field, Task and Assignment for Course 12 &13,	250 Marks
Course20	B.Ed. 230	External Assessment (Viva Voce along with power point presentation about the Teaching Subjects, Curricular and co- curricular activities in School during Internship)	150 Marks
		TOTAL	900 Marks

8. MU PAPER CODE (THE CURRICULAR DETAILS FOR TWO YEARS)
ANNUAL DISTRIBUTION OF THE COURSE (I-Year)

Course	Paper Code	Nomenclature	Scheme
Course 1	B.Ed. 101	Childhood and Growing up	100 Marks (80+20)
Course 2	B.Ed. 102	Contemporary India and Education (Including Gender, School and Society)	100 Marks (80+20)
Course 3	B.Ed. 103	Learning and Teaching	100 Marks (80+20)
Course 4	B.Ed. 104	Language across the curriculum (Including Reading and Reflecting on the Texts)	100 Marks (80+20)
Course 5	B.Ed. 105-127	Pedagogy of School Subject (Including Understanding, Discipline and Subject 1 st) Part I	100 Marks (80+20)
Course 6	B.Ed. 105-127	Pedagogy of School Subject (Including Understanding, discipline and Subject 2 nd) Part I	100 Marks (80+20)
Course 5&6	B.Ed. 105	Pedagogy of Hindi	100 Marks (80+20)
	B.Ed. 106	Pedagogy of English	
	B.Ed. 107	Pedagogy of Sanskrit	
	B.Ed. 108	Pedagogy of Urdu	
	B.Ed. 109	Pedagogy of Rajasthani	
	B.Ed. 110	Pedagogy of Mathematics	
	B.Ed. 111	Pedagogy of General Science	
	B.Ed. 112	Pedagogy of Physics	
	B.Ed. 113	Pedagogy of Chemistry	
	B.Ed. 114	Pedagogy of Biology	
	B.Ed. 115	Pedagogy of Home Science	
	B.Ed. 116	Pedagogy of Computer Science	
	B.Ed. 117	Pedagogy of Social Science	
	B.Ed. 118	Pedagogy of Sociology	
	B.Ed. 119	Pedagogy of Psychology	
	B.Ed. 120	Pedagogy of History	
	B.Ed. 121	Pedagogy of Political Science	
	B.Ed. 122	Pedagogy of Economics	

	B.Ed. 123	Pedagogy of Geography	
	B.Ed. 124	Pedagogy of Art	
	B.Ed. 125	Pedagogy of Music	
	B.Ed. 126	Pedagogy of Business Studies	
	B.Ed. 127	Pedagogy of Financial Accounting	
Course 7	B.Ed. 128	Drama and Art in Education (Internal Assessment)	50 Marks
Course 8	B.Ed. 129	Critical Understanding of ICT (Internal and External Assessment)	100 Marks (50 Internal +50 External)
Course 9	B.Ed. 130	Open Air Session/SUPW Camp (Internal Assessment)	50 Marks
Course10	B.Ed. 131	School Internship Phase- I (4 Weeks) Internal Assessment (Pre Practice Teaching and Practice Teaching), Engagement with the Field: Task and Assignment for Course 5 &6	200 Marks
Course11	B.Ed. 132	External Assessment (One Lesson of Pedagogy of School Subject)	100 Marks
		Total	1100 Marks

II YEAR

Course	Paper Code	Nomenclature	Scheme
Course 12 & 13	B.Ed. 201-223	Pedagogy of School Subject (Including Understanding, discipline and Subject 1 st) Part II	50 Marks (40+10)
	B.Ed. 201-223	Pedagogy of School Subject (Including Understanding, discipline and Subject 2 nd) Part II	50 Marks (40+10)
Course12 &13	B.Ed. 201	Pedagogy of Hindi	
	B.Ed. 202	Pedagogy of English	
	B.Ed. 203	Pedagogy of Sanskrit	
	B.Ed. 204	Pedagogy of Urdu	
	B.Ed. 205	Pedagogy of Rajasthani	
	B.Ed. 206	Pedagogy of Mathematics	
	B.Ed. 207	Pedagogy of General Science	
	B.Ed. 208	Pedagogy of Physics	
	B.Ed. 209	Pedagogy of Chemistry	
	B.Ed. 210	Pedagogy of Biology	
	B.Ed. 211	Pedagogy of Home Science	
	B.Ed. 212	Pedagogy of Computer Science	
	B.Ed. 213	Pedagogy of Social Science	
	B.Ed. 214	Pedagogy of Sociology	
	B.Ed. 215	Pedagogy of Psychology	
	B.Ed. 216	Pedagogy of History	
	B.Ed. 217	Pedagogy of Political Science	

	B.Ed. 218	Pedagogy of Economics	
	B.Ed. 219	19 Pedagogy of Geography	
	B.Ed. 220	20 Pedagogy of Art	
	B.Ed. 221	21 Pedagogy of Music	
	B.Ed. 222	22 Pedagogy of Business Studies	
	B.Ed. 223	23 Pedagogy of Financial Accounting	
Course 14	B.Ed. 224	Knowledge and Curriculum	100 Marks (80+20)
Course 15	B.Ed. 225	Assessment for Learning	100 Marks (80+20)
Course 16	B.Ed. 226	Educational Management and Creating an Inclusive School	100 Marks (80+20)
Course 17	B.Ed. 227	Understanding the Self (Internal Assessment)	50 Marks
Course 18	B.Ed. 228	Optional Course * (Any one) 1. Vocational/Work education 2. Health and Physical Education 3. Peace Education 4. Guidance and Counseling 5. Innovation and Action Research	50 Marks (40+10)
Course 19	B.Ed. 229	School Internship (Phase II, 16 Weeks) (Internal Assessment) Engagement with the Field, Task and Assignment for Course 12&13	250 Marks
Course 20	B.Ed. 230	External Assessment (Viva Voce along with Power Point Presentation about the Teaching Subjects, Curricular and co-curricular activities in School during Internship)	150 Marks
		TOTAL	900 Marks

9. EVALUATION

EVALUATION OF THEORY PAPERS

Some theory papers will carry a weightage of 100 marks, out of which 80 marks will be for external University Examination and 20 marks will be for internal sessional work. Out of 20 marks - 10 marks will be for sessional and 10 marks will be for mid-term test. In some of the papers carrying a weightage of 50 marks, 40 marks will be for external University Examination and 10 marks will be for internal sessional work. Out of 10 marks (5 marks will be for sessional and 5 marks) will be for mid-term test.

The final external examination paper for **80 marks will be of three hour's duration** and the paper for **40 marks will be of two hour's duration**.



1. Each question paper (80 MARKS) will have three sections- **Section A** will contain 10 very short answer type questions and the candidate will be required to attempt the entire ten questions. Each question will carry two marks. **Section-B** will contain 10 short answer type questions out of which a candidate is required to attempt any 5 questions (one question per unit to be attempted out of two questions per unit). Each question will carry 6 marks. **Section-C** will have 5 Essay Type Questions (one from each unit) and a candidate will be required to attempt any three questions. There will be 10 marks for each question.
2. Each question paper (40 MARKS) will have three sections- **Section A** will contain 4 very short answer type questions and the candidate will be required to attempt all four questions. Each question will carry 2 marks. **Section-B** will contain 3 short answer type questions out of which a candidate is required to attempt any 2 questions. Each question will carry 6 marks. **Section-C** will have 3 questions with a choice of attempting any 2 questions. Essay type questions will carry 10 marks each.
3. Very short answer type questions would aim at testing of critical thinking, knowledge of concepts, facts, definitions, laws, principles, generalization etc. and also understanding of principles and concepts.
4. Short answer type questions would aim at testing knowledge, definitions, laws, generalization etc. and understanding of concepts.
5. Essay type questions are to aim at testing the abilities of critical thinking behavioural change and application of principles taught in theory classes.

Format of Eighty (80) marks question paper (Three Hours Time)

Question Type	No. of Questions Per Unit	Total No. of Questions	No. of Questions to be attempted	Total Marks
Very Short Answer Type	2 Per Unit	10	10	10x2=20
Short Answer Type	2 Per Unit	10	5 (One Question per Unit to be attempted)	5x6=30
Long Answer (Essay) Type	1 Per Unit	5	3	3x10=30
TOTAL				80 marks

Format of Forty (40) marks question paper (Two Hours Time)

Question Type	No. of Questions Per Unit	Total No. of Questions	No. of Questions to be attempted	Total Marks
Very Short Answer Type	1/2 Per Unit	4	4	4x2= 8
Short Answer Type	1 Per Unit	3	2	2x6=12
Long Answer (Essay) Type	1 Per Unit	3	2	2x10=20
Total				40 Marks

EVALUATION FOR INTERNSHIP PROGRAMME

Evaluation for Internship Programme will consist of two parts: Internal Evaluation & External Evaluation, the details of which are as follows:

Practical Work in B. Ed First Year

I. Pre Practice Teaching (Micro Teaching):

- a. Practicing Teaching (5 Skills in each Subject) 10+10 = 20 Marks
- b. T.L.M. Workshop in each Subject (5+5) = 10 Marks
- c. Simulated Teaching (5 Lessons in each Subject) = 10 marks
- d. Blue Print & Test Preparation in Both Subjects = 10 marks

Total: = 50 Marks

II. Practice Teaching:

- a. Peer Group Lesson Observation = 10 Marks
Ordinary + Criticism (5 Lessons in each round. 5+5 Marks)
- b. Practice Teaching Two Rounds: (One Round in each subject):
In the round of each subject 12 lessons + 1 Unit Test + 1 Criticism:
Lessons (50 + 50 Marks) = 100 Marks
Tests (10 + 10 Marks) = 20 Marks
Criticism in Peer Group (10 + 10 Marks) = 20 Marks

Total = 150 Marks

III. External Practical Exam:

Presentation of teaching practice in one Teaching Subject before Two External Examiners:
= 100 Marks

GRAND TOTAL = 300 Marks

Practical Work in B.Ed. Second Year

INTERNAL EVALUATION (Course-19) [II Year]		
1.	Teaching in Schools Internship (Date and period wise Record of teaching plan of the opted Teaching Subjects, which were to maintained for internship)	100 (50+50)
2.	Individual Activities and File Record	80
3.	Group Activities and File Record	30
4.	Teaching Aid (4)	20
5.	Community Engagement and Report writing	20
	Total Marks	250
EXTERNAL EVALUATION [II Year]		
1.	Course 20- Viva Voce with Power Point Presentation regarding the curricular and co-curricular activities during the Internship Programme	150
	TOTAL MARKS	400

OFFICE OF THE REGISTRAR
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO /2019/2333

04th June 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for the Department of Humanities

The Board of Studies for the Department of Humanities is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- 1) Prof. (Dr.) Chitrlekha Singh, Dean, Faculty of Humanities, Social Science & Fine Arts
- Chairman
- 2) Prof. (Dr.) Shushila Laddha, Maharana Pratap Government PG College, Chittorgarh
- External Member
- 3) Prof. (Dr.) Hemraj Meena, Kendriya Hindi Sansthan Aagra (UP)
- External Member
- 4) Dr. Mahesh Chandra Dubey, Assistant Professor
- Internal Member
- 5) Mrs. Manju Chashta, Assistant Professor
- Internal Member
- 6) Mrs. Vandana Chundawat, Head & Assistant Professor
- Convener

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

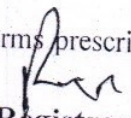
The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute to the task of the meeting with the approval of the President/Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking the convenience of the Chairman in the first week of July 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to TA/DA and sitting fees as per the norms prescribed by Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoDs (for kind information & necessary action)
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- Record file.


Registrar
Mewar University
Gangrar, (Chittorgarh)

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF HUMANITIES

DATE: 06/07/2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Humanities was held on 06th July 2019 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20.

The following members were present: (Annexure 1)

- 1) Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Science & Fine Arts
- Chairman
- 2) Prof. (Dr.) Shushila Laddha, Maharana Pratap Government PG College, Chittorgarh
- External Member
- 3) Prof. (Dr.) Hemraj Meena, Kendriya Hindi Sansthan Aagra (UP) - External Member
- 4) Dr. Mahesh Chandra Dubey, Assistant Professor - Internal Member
- 5) Mrs. Manju Chashta, Assistant Professor - Internal Member
- 6) Mrs. Vandana Chundawat, Head & Assistant Professor - Convener

At the outset, Mrs. Vandana Chundawat, (Head, Department of Humanities) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 13-04-2018

Resolution: Minutes of the previous BOS of the Humanities department held on 13-04-2018 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener

Resolution: Mrs. Vandana Chundawat (Head, Department of Humanities) presented departmental activity conducted related to curricular development, research development, and faculty development of Humanities.

Vandana



Agenda 3: Introduction of New Programme/Courses to be added.

Resolution: As per the recommendation of the members of the BOS committee, it has been decided to start five new programmes in the upcoming session 2019-20 are mentioned below. (Annexure 2)

1. Bachelor of Performing Arts (BPA)
2. Bachelor of Visual Arts (BVA)
3. Master of Visual Arts (MVA)
4. M.A. in English
5. M.A. in Hindi

Agenda 4: To recommend the approved syllabus to Academic Council

Resolution: Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.

Vandana



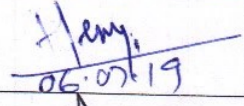


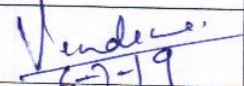


MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF HUMANITIES

DATE: 06/07/2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) Chitraleka, Dean, Faculty of Humanities, Social Science & Fine Arts	Chairman	 06.07.2019
2	Dr. Shushila Laddha, Professor, Maharana Pratap Government pg College, Chittorgarh	External Member	
3	Prof. Hemraj Meena, Kendriya Hindi Sansthan Agra (UP)	External Member	 06.07.19
4	Dr. Mahesh Chandra Dubey, Assistant Professor	Internal Member	
5	Manju Chashta, Assistant Professor	Internal Member	
6	Ms. Vandana Chundawat, Head, English Department	Convener	 6-7-19

Vandana

Mewar University, Chittorgarh

Faculty of Fine and Performing Arts

BPA (Bachelor of Performing Art) - Vocal Music

I SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BPA-101	General English -I	4	2	-	6	5	5	5	35	50	-	100
2	BPA-102	General Hindi-I	4	2	-	6	5	5	5	35	50	-	100
3	BPA-103	Indian Culture And Art-I	4	2	-	6	5	5	5	35	50	-	100
4	BPA-104	General And Applied theory-I	4	2	-	6	5	5	5	35	50	-	100
5	BPA-105	Viva Voce-I	-	-	4	4	-	-	-	-	-	50	50
6	BPA-106	Rags -I	-	-	4	4	-	-	-	-	-	50	50
7	BPA-107	knowledge of other forms of music -I	-	-	4	4	-	-	-	-	-	50	50
8	BPA-108	Project Work -I	-	-	4	4	-	-	-	-	-	50	50
TOTAL			16	8	8	40	20	20	20	140	200	200	600

II SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BPA-201	General English -II	4	2	-	6	5	5	5	35	50	-	100
2	BPA-202	General Hindi-II	4	2	-	6	5	5	5	35	50	-	100
3	BPA-203	Indian Culture And Art-II	4	2	-	6	5	5	5	35	50	-	100
4	BPA-204	General And Applied theory-II	4	2	-	6	5	5	5	35	50	-	100
5	BPA-205	Viva Voce-II	-	-	4	4	-	-	-	-	-	50	50
6	BPA-206	Rags -II	-	-	4	4	-	-	-	-	-	50	50
7	BPA-207	knowledge of other forms of music-II	-	-	4	4	-	-	-	-	-	50	50
8	BPA-208	Project Work -II	-	-	4	4	-	-	-	-	-	50	50
TOTAL			16	8	8	40	20	20	20	140	200	200	600

III SEMESTER

Dr. Rajesh Kumar
Rajesh Kumar
Dr. Rajesh Kumar

[Signature]

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part I	part 2		
1	BPA-301	General Theory-I	4	2	-	6	5	5	5	35	50		100
2	BPA-302	Applied Theory-I	4	2	-	6	5	5	5	35	50		100
3	BPA-303	Rags-III	-	-	4	4	-	-	-	-	-	50	50
4	BPA-304	Taal-I	-	-	4	4	-	-	-	-	-	50	50
5	BPA-305	Rag and Taal-I	-	-	4	4	-	-	-	-	-	50	50
6	BPA-306	Project Work-III	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	12	24	10	10	10	70	240	200	400

IV SEMESTER

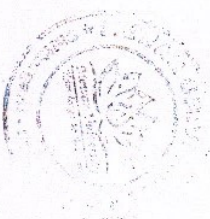
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part I	part 2		
1	BPA-401	General Theory-II	4	2	-	6	5	5	5	35	50		100
2	BPA-402	Applied Theory -II	4	2	-	6	5	5	5	35	50		100
	BPA-403	Rags-IV	-	-	4	4	-	-	-	-	-	50	50
	BPA-404	Taal-II	-	-	4	4	-	-	-	-	-	50	50
	BPA-405	Rag and Taal-II	-	-	4	4	-	-	-	-	-	50	50
8	BPA-406	Project Work -IV	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	12	24	10	10	10	70	100	200	400

V SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part I	part 2		
1	BPA-501	General Theory-III	4	2	-	6	5	5	5	35	50		100
2	BPA-502	Applied Theory -III	4	2	-	6	5	5	5	35	50		100
3	BPA-503	Rags-V	-	-	4	4	-	-	-	-	-	50	50
4	BPA-504	Taal-III	-	-	4	4	-	-	-	-	-	50	50
5	BPA-505	Rag and Taal-III	-	-	4	4	-	-	-	-	-	50	50
8	BPA-506	Project Work - V	-	-	4	4	-	-	-	-	-	50	50

Dr. Rajiv K. Kulkarni

R.K. Kulkarni



TOTAL	8	4	12	24	10	10	10	10	70	100	200	400
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VI SEMESTER														
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)				Theory(85)		Lab	Total . Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2			
1	BPA-601	General Theory-IV	4	2	-	6	5	5	5	35	50	-	100	
2	BPA-602	Applied Theory -IV	4	2	-	6	5	5	5	35	50	-	100	
3	BPA-603	Rags- VI	-	-	4	4	-	-	-	-	-	50	50	
4	BPA-604	Taal-IV	-	-	4	4	-	-	-	-	-	50	50	
5	BPA-605	Rag and Taal-IV	-	-	4	4	-	-	-	-	-	50	50	
8	BPA-606	Project Work - VI	-	-	4	4	-	-	-	-	-	50	50	
TOTAL			8	4	12	24	10	10	10	70	100	200	400	

VII SEMESTER													
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory(85)		Lab	Total . Marks
			L	T	P		Presentation	Chart	Assignment	Part I	part 2		
1	BPA-701	General Theory-V	4	2	-	6	5	5	5	35	50	-	100
2	BPA-702	Applied Theory - V	4	2	-	6	5	5	5	35	50	-	100
3	BPA-703	Rag and Taal-V	-	-	4	4	-	-	-	-	-	300	300
8	BPA-704	Dissertation -I	-	-	4	4	-	-	-	-	-	100	100
TOTAL			8	4	8	20	10	10	10	70	100	400	600

VIII SEMESTER													
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory(85)		Lab	Total . Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BPA-801	General Theory-VI	4	2	-	6	5	5	5	35	50	-	100
2	BPA-802	Applied Theory -VI	4	2	-	6	5	5	5	35	50	-	100
3	BPA-803	Rag and Taal-VI	-	-	4	4	-	-	-	-	-	300	300
	BPA-804	Dissertation-II	-	-	4	4	-	-	-	-	-	100	100
TOTAL			8	4	8	20	10	10	10	70	100	400	600



B. T. Kanchan

Dr. Rajamhi K. Kanchan

Mewar University, Chittorgarh
Faculty of Fine and Performing Arts
BVA (Bachelor of Visual Art)

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BVA-101	General English -I	4	2	-	6	5	5	5	35	50	-	100
2	BVA-102	General Hindi-I	4	2	-	6	5	5	5	35	50	-	100
3	BVA-103	Indian Culture and Art-I	4	2	-	6	5	5	5	35	50	-	100
4	BVA-104	Drawing-I	-	-	4	4	-	-	-	-	-	50	50
5	BVA-105	Design 2D-I	-	-	4	4	-	-	-	-	-	50	50
6	BVA-106	Design 3D-I	-	-	4	4	-	-	-	-	-	50	50
7	BVA-107	Colour Composition-I	-	-	4	4	-	-	-	-	-	50	50
8	BVA-108	Print Making-I	-	-	4	4	-	-	-	-	-	50	50
TOTAL			12	6	20	38	15	15	15	105	150	250	550

II SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BVA-201	General English -II	4	2	-	6	5	5	5	35	50	-	100
2	BVA-202	General Hindi-II	4	2	-	6	5	5	5	35	50	-	100
3	BVA-203	Indian Culture and Art-II	4	2	-	6	5	5	5	35	50	-	100
4	BVA-204	Drawing-II	-	-	4	4	-	-	-	-	-	50	50
5	BVA-205	Design 2D-II	-	-	4	4	-	-	-	-	-	50	50
6	BVA-206	Design 3D-II	-	-	4	4	-	-	-	-	-	50	50
7	BVA-207	Colour Composition-II	-	-	4	4	-	-	-	-	-	50	50
8	BVA-208	Print Making-II	-	-	4	4	-	-	-	-	-	50	50
TOTAL			12	6	20	38	15	15	15	105	150	250	550

III SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BVA-301	Study Material and Methods-I	4	2	-	6	5	5	5	35	50	-	100
2	BVA-302	Art History (Indian and Western)	4	2	-	6	5	5	5	35	50	-	100
3	BVA-303	Drawing -III	-	-	4	4	-	-	-	-	-	50	50
4	BVA-304	Composition and Head Study-I	-	-	4	4	-	-	-	-	-	50	50
5	BVA-305	Wood Carving And Exercise In	-	-	4	4	-	-	-	-	-	50	50
6	BVA-306	Elective-I	-	-	4	4	-	-	-	-	-	50	50



R. K. Karan

Dr. Rajesh K. Karan

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TOTAL	8	4	16	28	10	10	10	70	100	200	400
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Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignm	Part 1	part 2		
1	BVA-401	Study Material And Methods-II	4	2	-	6	5	5	5	35	50	-	100
2	BVA-402	Art History (Indian and Western)	4	2	-	6	5	5	5	35	50	-	100
3	BVA-403	Drawing-IV	-	-	4	4	-	-	-	-	-	50	50
4	BVA-404	Composition And Head Study-II	-	-	4	4	-	-	-	-	-	50	50
5	BVA-405	Wood Carving And Exercise In	-	-	4	4	-	-	-	-	-	50	50
6	BVA-406	Elective-II	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	16	28	10	10	10	70	100	200	400

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignm	Part 1	part 2		
1	BVA-501	Indian Art and Aesthetics-I	4	2	-	6	5	5	5	35	50	-	100
2	BVA-502	Western Art And Aesthetics-I	4	2	-	6	5	5	5	35	50	-	100
3	BVA-503	Composition And Life Study-I	-	-	4	4	-	-	-	-	-	50	50
4	BVA-504	Stone Carving-I	-	-	4	4	-	-	-	-	-	50	50
5	BVA-505	Metal Sculpture By Different Pro	-	-	4	4	-	-	-	-	-	50	50
6	BVA-506	Elective-III	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	16	28	10	10	10	70	100	200	400

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignm	Part 1	part 2		
1	BVA-601	Indian Art and Aesthetics-II	4	2	-	6	5	5	5	35	50	-	100
2	BVA-602	Western Art and Aesthetics-II	4	2	-	6	5	5	5	35	50	-	100
3	BVA-603	Composition And Life Study-II	-	-	4	4	-	-	-	-	-	50	50
4	BVA-604	Stone Carving-II	-	-	4	4	-	-	-	-	-	50	50
5	BVA-605	Metal Sculpture By Different Pro	-	-	4	4	-	-	-	-	-	50	50
6	BVA-606	Elective-IV	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	16	28	10	10	10	70	100	200	400

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignm	Part 1	part 2		
1	BVA-701	Indian Modern and Contemporary	4	2	-	6	5	5	5	35	50	-	100
2	BVA-702	Western Modern Art-I	4	2	-	6	5	5	5	35	50	-	100
3	BVA-703	Composition and Sculpture Desig	-	-	4	4	-	-	-	-	-	50	50
4	BVA-704	Metal Sculpture By Different Pro	-	-	4	4	-	-	-	-	-	50	50
5	BVA-705	Sculpture in Modern Media-I	-	-	4	4	-	-	-	-	-	50	50
6	BVA-706	Elective-V	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	16	28	10	10	10	70	100	200	400



Dr. Rajarajeshwari Kumbhar

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VIII SEMESTER													
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (15)			Theory (85)		Lab	Total Marks
			L	T	P		Presentation	Chart	Assignment	Part 1	part 2		
1	BVA-801	Indian Modern and Contemporary	4	2	-	6	5	5	5	35	50	-	100
2	BVA-802	Western Modern Art-II	4	2	-	6	5	5	5	35	50	-	100
3	BVA-803	Composition and Sculpture Design	-	-	4	4	-	-	-	-	-	50	50
4	BVA-804	Metal Sculpture By Different Pro	-	-	4	4	-	-	-	-	-	50	50
5	BVA-805	Sculpture in Modern Media-II	-	-	4	4	-	-	-	-	-	50	50
6	BVA-806	Elective-VI	-	-	4	4	-	-	-	-	-	50	50
TOTAL			8	4	16	28	10	10	10	70	100	200	400

ELECTIVE-I	BVA-306A	Painting
ELECTIVE-II	BVA-406A	Painting
ELECTIVE-III	BVA-506A	Painting
ELECTIVE-IV	BVA-606A	Painting
ELECTIVE-V	BVA-706A	Painting
ELECTIVE-VI	BVA-806A	Painting

BVA-306B	Print Making
BVA-406B	Print Making
BVA-506B	Print Making
BVA-606B	Print Making
BVA-706B	Print Making
BVA-806B	Print Making

BVA-306C	Sculpture
BVA-406C	Sculpture
BVA-506C	Sculpture
BVA-606C	Sculpture
BVA-706C	Sculpture
BVA-806C	Sculpture



R. K. Kaur
Dr. Rajendra Kumar Kaur

Mewar University, Chittorgarh

Faculty of Fine and Performing Arts

MVA (Master of Visual Art)

I SEMESTER												
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (40)			Theory		Total Marks
			L	T	P		Presentation	Chart	Assignment	Lab		
1	MVAP-101	Philosophy of Art (Indian And Western)	4	2	-	6	20	10	10	60	-	100
2	MVAP-102	Modern Art (Indian And Western Art)	4	2	-	6	20	10	10	60	-	100
3	MVAP-103/104/105	Practical -I	-	-	8	8	-	-	-	-	300	300
TOTAL			8	4	8	20	40	20	20	120	300	500

II SEMESTER												
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (40)			Theory	Lab	Total. Marks
			L	T	P		Presentation	Chart	Assignment			
1	MVAP-201	Philosophy of Art (Indian And Western)	4	2	-	6	20	10	10	60	-	100
2	MVAP-202	Modern Art (Indian And Western Art)	4	2	-	6	20	10	10	60	-	100
3	MVAP-203/204/205	Practical -II	-	-	8	8	-	-	-	-	300	300
TOTAL			8	4	8	20	40	20	20	120	300	500

III SEMESTER												
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (40)			Theory	Lab	Total. Marks
			L	T	P		Presentation	Chart	Assignment			
1	MV/AP-301/302/303	Practical Main I	-	-	8	8	-	-	-	-	300	300
2	MV/AP-304/305/306/307/308/309	Elective I	4	2	-	6	20	10	10	60	-	100
3	MV/AP-310	Dissertation-I	4	2	-	6	20	10	10	60	-	100
TOTAL			8	4	8	20	40	20	20	120	100	500

IV SEMESTER													
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Teacher Assessment (40)				Theory	Lab	Total. Marks
			L	T	P		Presentation	Chart	Assignment				
1	MVAP-401/402/403	Practical Main-II	-	-	8	8	-	-	-	-	300	300	
2	MVAP-404/405/406/407/408/409	Elective-II	4	2	-	6	20	10	10	60	-	100	
3	MVAP-410	Dissertation-II	4	2	-	6	20	10	10	60	-	100	
TOTAL			8	4	8	20	40	20	20	120	100	500	

MVAP-103	Practical I
	Portraiture-I

Dr. Rajendra Kumar Kanthan



[Signature]



MVAP-104	mural painting-I
MVAP-105	Creative Painting-I
Practical II	
MVAP-203	Portraiture-II
MVAP-204	mural painting-II
MVAP-205	Creative Painting-II
Practical Main-I	
MVAP-301	Any Historical Monuments-I
MVAP-302	Any Natural Site With-I
MVAP-303	Folk/Tribal Habbits-I
Practical Main II	
MVAP-401	Any Historical Monuments-II
MVAP-402	Any Natural Site With-II
MVAP-403	Folk/Tribal Habbits-II
Elective-I	
MVAP-304	Performing Arts -I
MVAP-305	Visual Arts -I
MVAP-306	Crafts -I
MVAP-307	Computer Graphics-I
MVAP-308	Traditional Arts-I
MVAP-309	Literature Or Humanity -I
Elective-II	
MVAP-404	Performing Arts -II
MVAP-405	Visual Arts -II
MVAP-406	Crafts -II
MVAP-407	Computer Graphics-II
MVAP-408	Traditional Arts-II
MVAP-409	Literature Or Humanity -II



R. Kanethan
Dr. Rajesh Kumar Kanethan

MEWAR UNIVERSITY

SYLLABUS FOR FOUR-SEMESTER

M.A ENGLISH- I SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week	Credit Hours	Internal Evaluation (Presentation, Assignment & TA)	External Examination	Total Marks
1	MAEN - 111	Introduction to Linguistics (Course 1)	L 5 T 1 P	6	40	60	100
2	MAEN - 112	Poetry I (Chaucer to Blake) (Course 2)	5 1	6	40	60	100
3	MAEN - 113	Drama I (Marlowe to Wilde excluding Shakespeare) (Course 3)	5 1	6	40	60	100
4	MAEN - 114	Prose (Course 4)	5 1	6	40	60	100
TOTAL			20 4	24	160	240	400

M.A ENGLISH- II SEMESTER

Sr. No	Course Code	Course Title	Contact hours per Week	Credit Hour	Internal Evaluation (Presentation, Assignment & TA)	External Examination	Total Marks
1	MAEN - 121	Linguistics and English Language Teaching (Course 5)	L 5 T 1 P	6	40	60	100
2	MAEN - 122	Poetry II (Wordsworth to Hardy)	5 1	6	40	60	100
3	MAEN - 123	Drama II (Shakespeare) (Course 7)	5 1	6	40	60	100
4	MAEN - 124	Fiction I (Defoe to Hardy) (Course 8)	5 1	6	40	60	100
TOTAL			20 4	24	160	240	400

M.A ENGLISH- III SEMESTER



(Signature)

(Vandana Choudhary)

Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hour	Internal Evaluation (Presentation, Assignment & TA)	External Examination	Total Marks
			L	T	P				
1	MAEN - 231	Poetry III (Hopkins to Ted Hughes) (Course 10)	5	1		6	40	60	100
2	MAEN - 232	Drama III (Twentieth Century Drama) (Course 10)	5	1		6	40	60	100
3	MAEN - 233	Literary Criticism & Theory I (Course 11)	5	1		6	40	60	100
4	MAEN – 234	Option A:Indian Literature in English I (Course 12)	5	1		6	40	60	100
TOTAL			20	4		24	160	240	400
M.A ENGLISH- IV SEMESTER									
Sr. No	Course Code	Course Title	Contact hours per Week			Credit Hours	Internal Evaluation (Presentation, Assignment & TA)	External Examination	Total Marks
			L	T	P				
1	MAEN - 241	Fiction II– (Course 13)	5	1		6	40	60	100
2	MAEN - 242	Literary Criticism & Theory II (Course 14)	5	1		6	40	60	100
3	MAEN - 243	Option A:Indian Literature in English II(Course 12)	5	1		6	40	60	100
4	MAEN – 244	Women Writing (Course 16)	5	1		6	40	60	100
5	Dissertation								
TOTAL			20	4		24	160	240	400

*Under
(Vandana Chundawat)*



SEMESTER: I							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA HIN-101	Prachin Kavya	3+1+0	4.0	30	10	60	100
MA HIN-102	Nirgun Bhakti Kavya	3+1+0	4.0	30	10	60	100
MA HIN-103	Sagun Bhakti Kavya	3+1+0	4.0	30	10	60	100
MA HIN-104	Reeti Kavya	3+1+0	4.0	30	10	60	100
MA HIN-105	Sahitya Sidhant Bhartiya	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: II							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA HIN-201	Adhunik Kavya (Chhayavad-Prasad Pant)	3+1+0	4.0	30	10	60	100
MA HIN-202	Adhunik Kavya (Chhayavad Nirala Mahadevi)	3+1+0	4.0	30	10	60	100
MA HIN-203	Adhunik Kavya (Natak, Nibandh)	3+1+0	4.0	30	10	60	100
MA HIN-204	Adhunik Kavya (Upanyas and Kahani)	3+1+0	4.0	30	10	60	100
MA HIN-205	Sahitya Sidhant (Pashchalya)	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500



DR. Shubhagda Pandey 21/07/2024

SEMESTER: III							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA HIN-301	Bhasha Vigyan	3+1+0	4.0	30	10	60	100
MA HIN-302	Chhayavadottar Kavya- (Dinkar, Agyey, Uktibodh)	3+1+0	4.0	30	10	60	100
MA HIN-303	Hindi Sahitya ka Etahas (Aadikal & Madhyakal)	3+1+0	4.0	30	10	60	100
MA HIN-304	Hindi Sahitya ka Etahas (Aadhunik kal)	3+1+0	4.0	30	10	60	100
MA HIN-305	Hindi Patrakarita	3+1+0	4.0	30	10	60	100
	Total	15+5+0	20				500

SEMESTER: IV							
Course Code	Course	Contact Hours/pw (L+T+P)	Total Credit Hours	End Term I	TA	End Term II	Total
MA HIN-401	Hindi Bhasha & Lipi	3+1+0	4.0	30	10	60	100
MA HIN-402	Chhayavadottar Kavya (Nagarjun, Trilochan, Shamsheer, Sahay)	3+1+0	4.0	30	10	60	100
MA HIN-403	Elective	3+1+0	4.0	30	10	60	100
MA HIN-404	Dissertation	3+1+0	4.0	40	-	60	100
MA HIN-405	Viva-Voce	0+4+0	6.0	50	-	00	150
	Total	12+8+0	22				550



[Handwritten signature]

Dr. Shubhada Pandey 23/3/2021

Elective Papers:-

1. Vishesh Adhayan -Aadhi Kavya
2. Vishesh Adhayan -Sant Kavya
3. Vishesh Adhayan -Sagun Bhakti
4. Vishesh Adhayan -Reeti Kavya
5. Vishesh Adhayan -Samkalin Kavya
6. Vishesh Adhayan -Aadhunik Katha Sahitya
7. Vishesh Adhayan -Lok Sahitya
8. Vishesh Adhayan -Prayojan Molak Hindi
9. Vishesh Adhayan -Bhartendra
10. Vishesh Adhayan -Premchand
11. Vishesh Adhayan -Jay Shankar Prasad
12. Vishesh Adhayan -Nirala



DR. Shubhada Pandey

21/5/2024

**OFFICE OF THE REGISTRAR
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)**

Ref. No.: MU/RO/2019/ 631-A

20th July 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Commerce

The Board of Studies for the Department of Commerce is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:


- | | |
|---|-------------------|
| 1) Prof. (Dr.) S. P. Mathur, Dean, Faculty of Management and Commerce | - Chairman |
| 2) Prof. (Dr.) P. K. Jain, Dean, FMS, MLSU, Udaipur | - External Member |
| 3) Prof. (Dr.) H. Prasad, MLSU, Udaipur | - External Member |
| 4) Mr. Umesh Toshniwal, VP Marketing, Nitin Spinners Ltd. Bhilwara | - Special Invitee |
| 5) Mr. Rajesh Bhatt, Assistant Professor | - Internal Member |
| 6) Mr. Vikram Singh Rao, Assistant Professor | - Internal Member |
| 7) Mr. Nishant Dubish, Assistant Professor | - Internal Member |
| 8) Mr. Raj Singh, Assistant Professor | - Internal Member |
| 9) Mr. Abhishek Kumar | - Alumni |
| 10) Dr. Chetali Agarwal, Head and Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute to the task of the meeting with the approval of the President/Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking the convenience of the Chairman in the fourth week of July 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to TA/DA and sitting fees as per the norms prescribed by Mewar University.


**Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)**

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoDs (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF COMMERCE

DATE: 22.07.2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Commerce was held on 22nd July 2019 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20. The following members were present: (Annexure 1)

- | | |
|---|-------------------|
| 1) Prof. (Dr.) S. P. Mathur, Dean, Faculty of Management and Commerce | - Chairman |
| 2) Prof. (Dr.) P. K. Jain, Dean, FMS, MLSU, Udaipur | - External Member |
| 3) Prof. (Dr.) H. Prasad, MLSU, Udaipur | - External Member |
| 4) Mr. Umesh Toshniwal, VP Marketing, Nitin Spinners Ltd. Bhilwara | - Special Invitee |
| 5) Mr. Rajesh Bhatt, Assistant Professor | - Internal Member |
| 6) Mr. Vikram Singh Rao, Assistant Professor | - Internal Member |
| 7) Mr. Nishant Dubish, Assistant Professor | - Internal Member |
| 8) Mr. Raj Singh, Assistant Professor | - Internal Member |
| 9) Mr. Abhishek Kumar | - Alumni |
| 10) Dr. Chetali Agrawal, Head and Associate Professor | - Convener |

Agenda 1: Welcoming the New Members

Resolution: Dr. Chetali Agrawal, Head of the Department of Commerce warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 2: Minutes of the previous Meeting of the Board of Studies of the Department of Commerce, Mewar University

Resolution: Minutes of the previous BOS of the Commerce Department held on 27-05-2017 were discussed and approved.

Agenda 3: Brief presentation of academic activities of the department before the BOS Committee by the convener



Resolution: Dr. Chetali Agrawal, Head of the Department of Commerce presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, faculty development and Industrial collaboration.

Agenda 4: Revision in any program/course

Resolution: No changes were made to the approved scheme and syllabus of the course B. Com.

Agenda 5: Any other suggestions by BOS Committee

Resolution:

- Companies Annual Reports with experts opinions should be discussed with students.

Agenda 6: To recommend the approved syllabus to Academic Council

Resolution: Members of the Board of Studies approved the revised syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF COMMERCE

DATE: 22.07.2019

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) S. P. Mathur, Dean, Faculty of Management and Commerce	Chairman	S.P. Mathur 22/7/19
2	Prof. (Dr.) P. K. Jain, Dean, FMS, MLSU, Udaipur	External Member	Prakash Jain 22/07/19
3	Prof. (Dr.) H. Prasad, MLSU, Udaipur	External Member	Prasad 22/7/19
4	Mr. Umesh Toshniwal, VP of Marketing, Nitin Spinners Ltd. Bhilwara	Special Invitee	Umesh 22/7/19
5	Mr. Rajesh Bhatt, Assistant Professor	Internal Member	Rajesh 22/7/19
6	Mr. Vikram Singh Rao, Assistant Professor	Internal Member	Vikram 22/07/2019
7	Mr. Nishant Dublish, Assistant Professor	Internal Member	Nishant 22/7/19
8	Mr. Raj Singh, Assistant Professor	Internal Member	Raj Singh 22/7/19
9	Dr. Chetali Agrawal, Head and Associate Professor	Convener	Chetali 22/7/19
10	Mr. Abhishek Kumar	Alumni	Abhishek 22/7/19

OFFICE OF THE REGISTRAR
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/ 2724-A

18th May 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Physical Education & Sports.

The Board of Studies for the Department of Physical Education & Sports is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|--|-------------------|
| 1. Prof. (Dr.) C.K. Sharma, Dean Academic | - Chairman |
| 2. Prof. (Dr.) Ankit Shukla, Professor, University of D.A.V.V. Indore (M.P.) | - External Member |
| 3. Dr. Shantilal Bamta, Sports Officer, Shaheed Narendra Singh College, Jaora (M.P.) | - External Member |
| 4. Mr. Rakesh Giri, Assistant Professor | - Internal Member |
| 5. Dr. Pooja Gupta, Head & Associated Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute to the task of the meeting with the approval of the President/Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking the convenience of the Chairman in the first week of July 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to TA/DA and sitting fees as per the norms prescribed by Mewar University.


Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HODs (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

DATE: 02.07.2019

Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of Physical Education and Sports was held on 02nd July 2019 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20.

The following members were present: (**Annexure 1**)

- | | |
|--|-------------------|
| 1. Prof. (Dr.) C.K. Sharma, Dean Academic | - Chairman |
| 2. Prof. (Dr.) Ankit Shukla, Professor, University of D.A.V.V. Indore (M.P.) | - External Member |
| 3. Dr. Shantilal Bamta, Sports Officer, Shaheed Narendra Singh College, Jaora (M.P.) | - External Member |
| 4. Mr. Rakesh Giri, Assistant Professor | - Internal Member |
| 5. Dr. Pooja Gupta, Head & Associated Professor | - Convener |

Dr. Pooja Gupta (Head, Physical Education & Sports) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS held on 28-06-2017

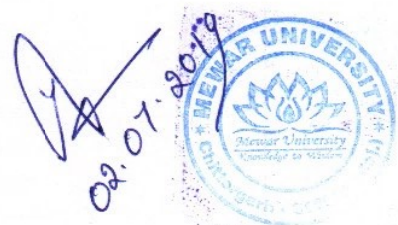
Resolution: Minutes of the previous BOS of the Physical Education & Sports department held on 28-06-2017 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener.

Resolution: Dr. Pooja Gupta, (Head, Physical Education & Sports) presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, and faculty development.

Agenda 3: Review and approved of existing Programme/Courses

Resolution: The BOS committee reviewed scheme and syllabus of BPES and MPES and approved scheme and syllabus of BPES and MPES for the session 2019-20.



Agenda 4: To recommend the approved syllabus to Academic Council.

Resolution: Members of the Board of Studies approved the syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.



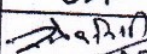
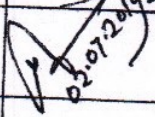

02.07.2019

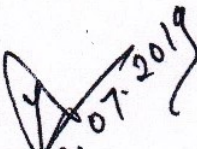


MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)
DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

DATE: 02.07.20

Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) C.K. Sharma, Dean Academic	Chairman	
2	Prof. (Dr.) Ankit Shukla, Professor, University of D.A.V.V. Indore (M.P.)	External Member	Ankit 02/07/19
3	Dr. Shantilal Bamta, Sports Officer, Shaheed Narendra Singh College, Jaora (M.P.)	External Member	 02/07/2019
4	Mr. Rakesh Giri, Assistant Professor	Internal Member	 02/07/2019
5	Dr. Pooja Gupta, Head & Associated Professor	Convener	 02/07/2019


02.07.2019



OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No. MU/RO/2019/2373-A

13th June 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Psychology

The Board of Studies for the Department of Psychology is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

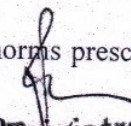
- | | |
|--|-------------------|
| 1) Dr. Amresh kumar, Dean, Faculty of Education and Psychology | - Chairman |
| 2) Dr. Ravindra kumar, HoD & Assistant Professor. | - Convener |
| 3) Dr. Chandrashekhar, Associate Professor, Jammu University | - External Member |
| 4) Dr. Meenakshi Bhatnagar- Associate Professor, Bhilwara | - External Member |
| 5) Dr. Durga prasad, Assistant Professor | - Internal Member |
| 6) Dr. Chandrakant sharma, Assistant Professor | - Internal Member |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the fourth week of June 2018. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.


Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)
DEPARTMENT OF PSYCHOLOGY

Date: 28/06/2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Psychology was held on 28th June 2019 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and syllabus revision for session 2019-20.

The following members were present: (Annexure 1)

- | | |
|--|-------------------|
| 1) Dr. Amresh kumar, Dean, Faculty of Education and Psychology | - Chairman |
| 2) Dr. Ravindra kumar, HoD & Assistant Professor. | - Convener |
| 3) Dr. Chandrashekhar, Associate Professor, Jammu University | - External Member |
| 4) Dr. Meenakshi Bhatnagar- Associate Professor, Bhilwara | - External Member |
| 5) Dr. Durga prasad, Assistant Professor | - Internal Member |
| 6) Dr. Chandrakant sharma, Assistant Professor | - Internal Member |

Dr. Ravindra Kumar (Head, Department of Psychology) warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 08-09-2018

Resolution: Minutes of the previous BOS of the Psychology department held on 08-09-2018 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener

Resolution: Dr. Ravindra Kumar (Head, Department of Psychology) presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, and faculty development.

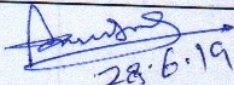
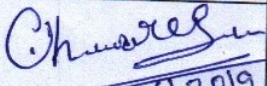
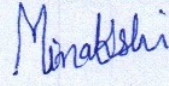
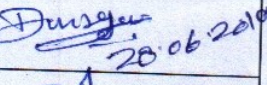

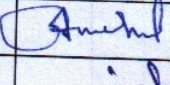
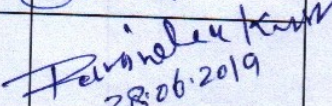
Agenda 3: Review of any program/course

Resolution: No changes were made to the approved scheme and syllabus of the course M.A. Psychology. The Committee decided to continue them as mentioned by UGC rules and regulations.

Ravindra kumar



Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dean, Faculty of Education & Psychology, Mewar University	Chairman	 28.6.19
2	Dr. Chandrashekhar, Assistant Professor, Jammu University University of Rajasthan, Jaipur (Rajasthan)	External Member	 28/06/2019
3	. Meenakshi Bhatnagar- Associate Professor.SMM Govt. Girls Comllage, Bheelwara	External Member	
4	Dr. Durga prasad, Assistant Professor, Mewar University.	Internal Member	 28.06.2019
5	Dr. Chandrakant sharma, Assistant Professor, Mewar University.	Internal Member	
6	Ms. Achal Harjai	Alumni	
7	Dr. Ravindra Kumar, (Convenor) Assistant Professor & Head,	Convener	 28.06.2019

OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/ 2700-A

14th May 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Life Science

The Board of Studies for the Department of Life Science reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

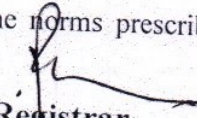
- | | |
|---|-------------------|
| 1. Prof. (Dr.) C. K. Sharma, Dean, Faculty of Science & Technology | - Chairman |
| 2. Dr. P. J. John, Associate Professor, Dept. of Zoology, UOR, Jaipur | - External Member |
| 3. Dr. Farah Syed, Assistant Professor, Dept. of Zoology, UOR, Jaipur | - External Member |
| 4. Ms. Nalini Tomer, Assistant Professor | - Internal Member |
| 5. Mr. Rizwan Ahmad, Assistant Professor | - Internal Member |
| 6. Ms. Prachi Vyas | - Alumni |
| 7. Dr. Vipin Yadav, Assistant Professor & Head | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

The Chairman of the Board of Studies may associate any member in the meeting, as a special invitee if it is considered his association will contribute to the task of the meeting with the approval of the President/Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking the convenience of the Chairman in the second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to TA/DA and sitting fees as per the norms prescribed by Mewar University.


Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoDs (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF LIFE SCIENCE

DATE: 13.06.2019

Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Life Science, Faculty of Science and Technology was held on 13th June 2019 in Room No. 135 at 10:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2019-20.

The following members were present: (Annexure 1)

- | | |
|---|-------------------|
| 1. Prof. (Dr.) C. K. Sharma, Dean, Faculty of Science & Technology | - Chairman |
| 2. Dr. P. J. John, Associate Professor, Dept. of Zoology, UOR, Jaipur | - External Member |
| 3. Dr. Farah Syed, Assistant Professor, Dept. of Zoology, UOR, Jaipur | - External Member |
| 4. Ms. Nalini Tomer, Assistant Professor | - Internal Member |
| 5. Mr. Rizwan Ahmad, Assistant Professor | - Internal Member |
| 6. Ms. Prachi Vyas | - Alumni |
| 7. Dr. Vipin Yadav, Assistant Professor & Head | - Convener |

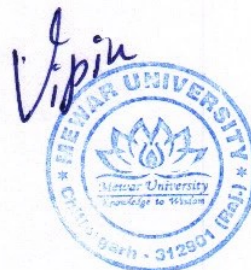
Dr. Vipin Yadav, Head of the Department of Life Science, warmly welcomed all the board members. The Head also appreciated the presence of outside experts who took the pain and keen interest to attend this meeting.

Agenda 1: To approve minutes of the previous BOS, held on 22-05-2018

Resolution: Minutes of the previous BOS of the Life Science Department held on 22-05-2018 were discussed and approved.

Agenda 2: Brief presentation of academic activities of the department before the BOS Committee by the convener

Resolution: Dr. Vipin Yadav, (Head, of the Life Science Department) presented a departmental activity report mentioning all the activities conducted related to curricular development, research and development, and faculty development.



Agenda 3: Review of Existing Programmes/Courses

Resolution: The Committee reviewed and approved the scheme and syllabus of courses for B.Sc and M.Sc students for the upcoming session from 2019-20.

Agenda 4: Introduction of New Programmes/Course

Resolution:

1. Suggestions received from the members of the previous BOS committee a new programme M.Sc Biochemistry will be started in the upcoming session 2019-20. A listing of practical and marks distribution (scheme of practical) should be done and appended with the syllabus. **(Annexure 2)**
 - M.Sc-Biochemistry
2. The BOS Committee approved the syllabus of two new courses in B.Sc BCZ of Botany from session 2019-20 is mentioned below. **(Annexure 3)**
 - Conservation Biology
 - Plant Biochemistry
3. The BOS Committee approved the syllabus of two new courses in B.Sc Biotechnology from session 2019-20 are mentioned below. **(Annexure 4)**
 - Bioinstrumentation
 - Toxicology
4. As per the recommendation of the previous BOS committee, it has been decided to add three new courses in the M.Sc Microbiology from the upcoming session 2019-20. The courses are mentioned below. **(Annexure 5)**
 - Enzyme and Reaction Kinetics
 - Microbial Cell Biology
 - Antibiotics
5. As per the recommendation of the previous BOS committee, it has been decided to add three new courses in the M.Sc Zoology programme from the upcoming session 2019-20. The courses are mentioned below. **(Annexure 6)**
 - Ethology
 - Animal Genetics and Genomics

Vibin

6. The suggestion received from the previous BOS committee, it is decided that three new courses were introduced in the M.Sc Biotechnology programme from the upcoming session 2019-20.

The courses are mentioned below. (**Annexure 7**)

- Bioprocess Engineering and Microbial Technology
- Nanotechnology

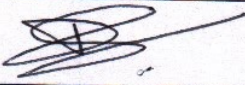
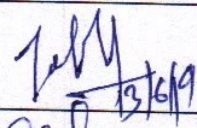
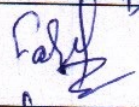
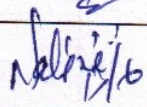
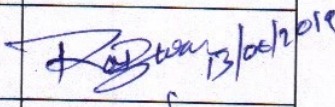
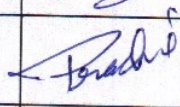
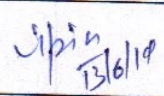
Agenda 5: To recommend the approved syllabus to Academic Council.

Resolution: Members of the Board of Studies approved the revise syllabus and recommended the same be forwarded to the Academic Council for their approval.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.



Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dean, Faculty of Science & Technology	Chairman	
2	Dr. P. J. John, Associate Professor, Dept. of Zoology, UOR, Jaipur	External Member	
3	Dr. Farah Syed, Assistant Professor, Dept. of Zoology, UOR, Jaipur	External Member	
4	Ms. Nalini Tomer, Assistant Professor	Internal Member	
5	Mr. Rizwan Ahmad, Assistant Professor	Internal Member	
6	Prachi Vyas	Alumni	
7	Dr. Vipin Yadav, Assistant Professor	Convener	

**Department of Life Science
(Biochemistry)**

Syllabus & Detailed Scheme

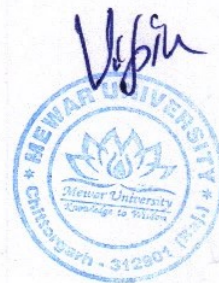
of

M.Sc. Biochemistry (2 years)

{2019-2020}

**DEPARTMENT OF LIFE SCIENCE
(BIOCHEMISTRY)
FACULTY OF SCIENCE AND TECHNOLOGY
MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)**

Knowledge to Wisdom



Mewar University, Chittorgarh

Year: 2019-20

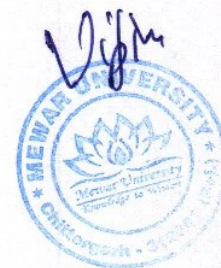
PG Course-M.Sc. Biochemistry

Core Course

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Core Course 1	I	M1BC-CT01	Instrumentation and Analytical Techniques
2	Core Course 2	I	M1BC-CT02	Plant Physiology and Biochemistry
3	Core Course 3	I	M1BC-CT03	Cell Biology and Molecular Genetics
4	Core Course 4	I	M1BC-CT04	Fundamentals of Biochemistry
5	Core Course 5	II	M2BC-CT05	Bioenergetics and Metabolism
6	Core Course 6	II	M2BC-CT06	Molecular Biology
7	Core Course 7	II	M2BC-CT07	Enzymology
8	Core Course 8	II	M2BC-CT08	Bioinformatics
9	Core Course 9	III	M3BC-CT09	Clinical Biochemistry
10	Core Course 10	III	M3BC-CT10	Immunology

Core Course Practical

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Core Course Practical 1	I	M1BC-CP01	Core Practical-1 (Instrumentation and Analytical Techniques + Plant Physiology and Biochemistry)
2	Core Course Practical 2	I	M1BC-CP02	Core Practical-2 (Cell Biology and Molecular Genetics + Fundamentals of Biochemistry)
3	Core Course Practical 3	II	M2BC-CP03	Core Practical-3 (Bioenergetics and Metabolism + Enzymology)
4	Core Course Practical 4	II	M2BC-CP04	Core Practical-4 (Molecular Biology + Bioinformatics)
5	Core Course Practical 5	III	M3BC-CP05	Core Practical-5 (Clinical Biochemistry + Immunology)



Skill Enhancement Course Elective

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Skill Course	II	M2BC-SEC01	Any One	Techniques of Analytical Biochemistry
2			M2BC-SEC01		Biostatistics

Discipline Specific Elective

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Discipline Specific Elective 1	III	M3BC-ET01	Any One	Genetic Engineering
					Protein Engineering
2	Discipline Specific Elective 2	IV	M3BC-ET02	Any One	Nutritional Biochemistry
					Principles of Evolutionary and Developmental Biology
3	Discipline Specific Elective 3	IV	M4BC-ET03	Any One	Research Methodology
					Secondary Metabolites and Metabolic Engineering
4	Discipline Specific Elective 4	IV	M4BC-ET04	Any One	Molecular medicine
					Genomics & Proteomics

Discipline Specific Elective Practical

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Discipline Specific Elective Practical 1	III	M3BC-EP01	Based on Choice of DSE	
2	Discipline Specific Elective Practical 3	IV	M3BC-EP02	Based on Choice of DSE	

Major/Minor Research Project (As per Choice)

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Training	IV	M4BC-PJ01	Major Research Project	
2	Minor Project	IV	M4BC-PJ02	Minor Research Project (Compulsory)	



DEPARTMENT OF LIFESCIENCE (BIOCHEMISTRY)
MEWAR UNIVERSITY, GANGRAR (CHITTORGARH)

M.Sc. Biochemistry
I Semester
Session 2019-20 onwards

The examination shall consist of four theory papers and two practical

Sr. No.	Paper Code	CC/DSE/ SEC	Title	Credit
1	M1BC-CT01	CC1	Instrumentation and Analytical Techniques	4
2	M1BC-CT02	CC2	Plant Physiology and Biochemistry	4
3	M1BC-CT03	CC3	Cell Biology and Molecular Genetics	4
4	M1BC-CT04	CC4	Fundamentals of Biochemistry	4
5	M1BC-CP01	CC1-PR	Core Practical-1	4
6	M1BC-CP02	CC2-PR	Core Practical-2	4
Total				24

Note:

CC - Core Course

PR- Practical



**Paper I: CC1 (M1BC-CT01): INSTRUMENTATION AND ANALYTICAL TECHNIQUES
(THEORY)**

Unit I:

Laboratory instrumentation: principle, components, assembly, working and applications of: Laminar clean air flow bench, autoclave, incubators, weighing balances, pH meter, water bath, hot air oven, colony counter and microtome. Laboratory safety measures.

Unit II:

Aseptic techniques: Principles of sterilization, Brief idea of various methods of sterilization, Physical, chemical, disinfectants, membrane filtration, pasteurization, tyndallization. Definition and classification of compounds used for sterilization, antibiotics and antimicrobials. Evaluation of effectiveness of antimicrobial/antiseptic compounds.

Unit III:

Microscopy: Types, principle, components, working, specimen, preparation and applications of Light, Bright field, Dark field, Phase contrast, Electron (SEM, TEM). Scanning tunneling. Fluorescence, Nomarsky differential interference contrast, Confocal, Atomic force microscopes.

Unit IV:

Chromatography: General Principles, process and applications of Paper and Thin Layer Chromatography. GLC, HPLC, Absorption, Ion Exchange, Gel filtration, Affinity chromatography, Radioactive tracer technique, autoradiography, Gamma and Scintillation counters, Brief idea of NMR, IR, GC-MS.

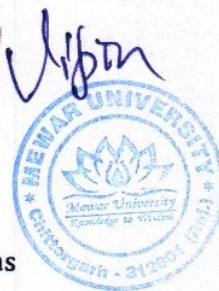
UNIT V:

Centrifugation and spectrophotometry: Types of centrifuges. Principles, working and applications of preparative, Analytical, Microcentrifuge. Refrigerated ultracentrifuge. Colorimeter and types of spectrophotometer: principle, working and application.

Electrophoresis: Types, Principles and applications: Gel electrophoresis, SDS PAGE, Affinity electrophoresis.

Suggested Readings

1. Pattabhai, V. and Gautham (2002), N. Biophysics. 2nd edition Narosa pub.
2. Narayan, P. Essentials of Biophysics. New Age International.
3. Roy, R.N. A Text Book of Biophysics. New Central Book Agency.
4. Daniel, M. Basic Biophysics. Agrobios.
5. Rodney Cottegril (2003), Biophysics: an introduction 2nd edition, John wiley & sons publication.



Paper II: CC2 (M1BC-CT02): PLANT PHYSIOLOGY AND BIOCHEMISTRY (THEORY)

Unit-I

Water movement in plant: Plant cell Structure, function and mechanisms of action of phytochromes, cryptochromes and phototropins, stomatal movement, transpiration, photoperiodism and biological 16 clocks, plant movement;

Unit-II

Photosynthesis: Photoreceptors phytochromes, Photosynthetic apparatus, pigments of photosynthesis, Calvin cycle (C3 plants), Hatch slack (C4 plants) & CAM pathways of carbon reduction and its regulation, Structure, function and regulation of RUBISCO, Crassulacean acid metabolism in plants; Photorespiration: photorespiration pathway and significance, cyanide resistance, relationship between photosynthesis, photorespiration.

Unit-III

Phytohormones: Biosynthesis, transport, physiological effects, mode of action and signal transduction of auxins, gibberlic acid, abscisic acid, ethylene and cytokinins in germination, embryogenesis, growth and development of plant;

Unit-IV

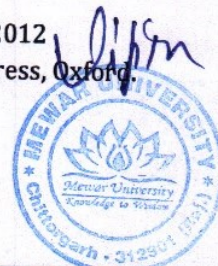
Nitrogen metabolism: Nitrogen fixation, nitrogenase complex, biochemistry and genetics of nitrogen fixation and ammonium assimilation, structure of „NIF“ genes and its regulation, structural features of nitrate reductase and nitrite reductase, regulation of nitrate and sulphate assimilation. Secondary plant metabolites: Nature, distribution, biosynthesis and function of plant metabolites, biosynthesis of nicotine. Biochemistry of plant toxins, phytohemagglutinins, lathyragens, nitriles, protease inhibitors, protein toxins, role of secondary metabolites in chemical defence.

Unit-V

Plant stress physiology: Plant stress, plant responses to abiotic and biotic stresses, salinity, water, heat, chilling, anaerobiosis, heavy metals, radiations and their impact on plant growth and metabolism, mechanisms of resistance to biotic stress and abiotic stress, antioxidative defence mechanism; Plant defence: Genetic basis of plant-pathogen interactions, antio R-Avr gene interactions and isolation of R genes, hypersensitive response (HR), systemic acquired resistance (SAR) and induced systemic resistance (ISR). Recent trends in Plant physiology and Biochemistry research and techniques.

Suggested Readings:

1. Introduction of Plant Biochemistry, by Goodwin T. W. and E.I. Mercer, Pergamon Press, Oxford, 1983.
2. Plant Physiology, 5th Edition, by Lincoln Taiz and Eduardo Zeiger, Amazon press, 2012
3. Introduction of Plant Biochemistry, by Goodwin T. W. and E.I. Mercer, Pergamon Press, Oxford.



4. Buchanan BB, Gruissem W & Jones RL. 2000. Biochemistry and Molecular Biology of Plants. 2nd Ed. John Wiley.
5. Dey PM & Harborne JB. 1997. Plant Biochemistry. Academic Press.
6. Heldt HS. 1997. Plant Biochemistry and Molecular Biology. Oxford Univ. Press

Paper II: CC3 (M1BC-CT03): CELL BIOLOGY AND MOLECULAR GENETICS (THEORY)

Unit I

Structure and organization of cell. Intra-cellular compartmentalization. Structure, function and significance of cell wall, plasma membrane, Membrane proteins and transport across biomembrane. Structure, function and significance of Cell organelles, flagella, cilia, cytoskeleton. Genetic organization of Mitochondria and chloroplast.

Unit II

Nucleus: nuclear membrane, nucleolus and nuclear pore complex. Chromatin; structure, types organization and chemistry of the chromosome. C-value paradox, Nuclear dyes and their application in staining of chromosomes. Karyotyping, Polytene, lambrush and B-chromosomes. Chromosome banding and its staining. Cell cycle events, regulation of cell division: cyclins, cyclin-dependent kinases, inhibitors, control of cell division in multicellular organisms

Unit III

Basic principles of Mendelian genetics- Segregation and Independent assortment, alleles and multiple alleles; human pedigrees and inheritance; Chromosomal basis of inheritance; Gene interactions; Chromosome and its structure; sex determination and sex-linked inheritance; Dosage compensation, Mitochondrial and chloroplast inheritance,

Unit IV

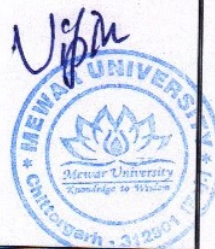
Mutation – molecular basis of spontaneous and induced mutations. Mechanisms of mutagenesis; Assay of mutagenic agents (Ames test); Chromosomal mutations- numerical (trisomy, polyploidy and aneuploidy) and structural changes and detection methods, somatic and germ line mutations, transposable elements, DNA repair, recombination error, SOS response and mutagenic repair.

Unit V

Microbial genetics: Methods of genetic transfers-transformation, conjugation, transduction & sexduction, mapping genes by interrupted mating, fine structure analysis of genes.

Suggested Readings

1. Alberts, B., Bray, D. Lewis, J., Raff, M., Roberts, K. and Watson, J.D. 1999. Molecular Biology of Cell. Garland Publishing Co. New York, USA.
2. Snustad, D.P. and Simmons, M.J. 2000. Principles of genetics. John Wiley and Sons.
3. Russel, P.J. 1998. Genetics. The Benjamin/Cumming Publishing Co.
4. Gasque, E. Manual of Laboratory experiments in cell Biology. W.C. Wilson Public.
5. Robertis, E.D.P., Robertis, E.M.F. Cell and Molecular Biology. Sauder College Publication.



6. Beeker, W.M. The world of the cell. Pearson Education.
7. Karp, G. Cell and Molecular Biology. John Willey and sons.
8. Lodish and Baltimore. Molecular Cell Biology. W.H. Freeman and Co.

Paper IV: CC4 (M1BC04CT04): FUNDAMENTALS OF BIOCHEMISTRY (THEORY)

Unit I

Composition of living matter; properties of water; Structure and Interactions, Water as a Solvent, Proton Mobility, properties of biomolecules in aqueous environment; molecular assemblies; pH, pKa and buffer, Henderson-Hasselbatch equation, buffers and its mechanism, biological buffers, molarity and normality.

Unit II

Carbohydrates: classification, structure, properties and functions. Role of carbohydrates in signaling, glycosylation of other biomolecules. Carbohydrate derivatives: mucins, glycoproteins, glycolipids, peptidoglycan. Carbon fixation, Glycolysis (aerobic and anaerobic), TCA, HMP, PPP and other pathways, Gluconeogenesis, Glycogenesis, Glycogenolysis.

Unit III

Lipids: classification, structure, properties and functions of fatty acids, triacylglycerols, phospholipids, sterols and terpenes, Conjugated lipids - lipoproteins. ketone bodies, Lipids with specific biological functions, micelles and liposomes. Biosynthesis of saturated and unsaturated fatty acids, β -oxidation.

Unit IV

Amino acids: general properties and biosynthesis, Transamination, Deamination, Decarboxylation; glutamine and glutamic acid pathway, urea cycle, uric acid biosynthesis. Protein structure (primary, secondary, tertiary and quaternary). Ramachandran plot. Protein sequencing, Vitamins and Co-enzyme (biological and biochemical functions).

Unit V

Structure and properties of vitamins, co-enzymes, biochemical action of vitamin and water soluble vitamins, Biosynthesis of vitamins, role of vitamins in the metabolism.

Suggested Readings

1. Voet and Voet. 2000. Biochemistry. John Wiley.
2. Lehninger. 2000. Principles of Biochemistry. CBS Publishers.
3. Stryer, L. 2002. Biochemistry. W.H. Freeman.
4. Harper. 2003. Biochemistry. McGraw-Hill.
5. Zubay. 1995. Biochemistry. Brown Publishers.
6. Jain, J.L. Fundamentals of Biochemistry. S. Chand and Company.
7. Deb, A.C. Fundamental of Biochemistry.
8. Methew, C.K. Biochemistry. Pearson Education.



DEPARTMENT OF LIFESCIENCE (BIOCHEMISTRY)
MEWAR UNIVERSITY, GANGRAR (CHITTORGARH)

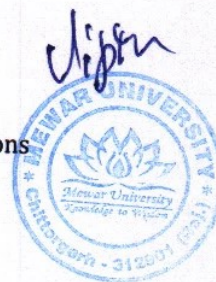
M.Sc. Biochemistry
II Semester
Session 2019-20 onwards

The examination shall consist of four theory papers, two practical and one skill enhancement course

S. No.	Paper Code	CC/DSE/ SEC	Title	Credit
1	M2BC-CT05	CC5	Bioenergetics and Metabolism	4
2	M2BC-CT06	CC6	Enzymology	4
3	M2BC-CT07	CC7	Molecular Biology	4
4	M2BC-CT08	CC8	Bioinformatics	4
5	M2BC-CP03	CC3-PR	Core Practical-3	4
6	M2BC-CP04	CC4-PR	Core Practical-4	4
7	M2BC-SEC01	SEC1	Techniques of Analytical Biochemistry	2
			Biostatistics	2
Total				26

Note:

- CC - Core Course
- PR-Practical
- SEC - Skill Enhancement Course
- Students will opt any one Skill Enhancement Course (SEC) out of given options



Paper I: CC5 (M2BC-CT05): BIOENERGETICS AND METABOLISM (THEORY)

Unit-I

Bioenergetics- concept of enthalpy, entropy, equilibrium constant and concept of free energy, standard reduction potential, relation of Gibbs free energy and standard reduction potential, High-energy compounds, energy charge, ATP as energy currency, ATP hydrolysis, coupled reaction, Group transfer energy, potential phosphoryl donor.

Unit-II

Thermodynamic consideration of committed steps in metabolic reactions, Thermodynamics of bonding, types of bonding, hydrogen bonding, van der Waals interaction, electrostatic interaction and hydrophobic interaction, role of non-covalent interaction in the stability of biomolecules, thermodynamics of antigen-antibody interaction, thermodynamics of receptor-ligand interaction, effect on temperature on pH and buffer.

Unit-III

Energy transducing membrane, electron transport system in mitochondria, structure of different electron carrier, chemiosmotic theory, Proton Motive force, oxidative phosphorylation and ATP synthesis, P/O ratio, uncouplers, ETS inhibitors, Experimental monitoring of ETS in mitochondria, Thermodynamic consideration of ETS in mitochondria, light harvesting complex in plants and ATP synthesis in thylakoid membrane.

Unit-IV

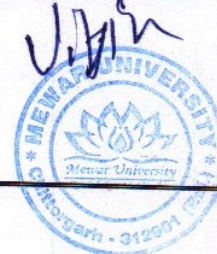
Glycolytic pathway; regulation of the hexokinase, phosphofructokinases, Krebs cycle; Amphibolic nature of TCA cycle, Glyoxylate cycle, glycogen breakdown, glycogen synthesis, Regulation of Glycogen Metabolism, Gluconeogenesis and its Regulation, Pentose phosphate pathways

Unit-V

Oxidation of fatty acids, beta-oxidation in mitochondria and peroxisomes, Synthesis and elongation of fatty acids, Desaturation of fatty acids in microsomes, Thermodynamics and regulation of fatty acid metabolism, Cholesterol synthesis and regulation, Composition and synthesis of lipoproteins and their transport. De novo and salvage synthesis of purine and pyrimidine nucleotides, nucleoside triphosphates and deoxynucleotides, Degradation of purine and pyrimidine nucleotides. Thermodynamics and regulation of nucleic acid metabolism, General reactions of amino acid metabolism, synthesis of various molecules via amino acid metabolism intermediates. Recent trends in bioenergetics and metabolism research and techniques.

Suggested Readings

1. Voet D., Voet J.G, Biochemistry 4th Edition., John Wiley and Sons, 2011.
2. Nelson, D. C. and Cox, M.M., Lehninger Principles of Biochemistry, 5th Edition, W. H. Freeman, 2010.
3. Berg J.M., Tymoczko J.L. and Stryer L., Biochemistry. 7th edition, W.H. Freeman and Co. New York, 2011.



Paper II: CC6 (M2BT-CT06): ENZYMOLOGY (THEORY)

Unit I

Enzyme definition and characteristics; activation energy; active site and its mapping; nomenclature and classification of enzyme; cofactor and coenzyme; type of enzymatic catalysis; acid-base, nucleophilicelectrophilic covalent catalysis, kinetics of single substrate reaction, rapid equilibrium and steady-state approach, enzyme kinetics parameters (K_m , V_{max} , K_{cat} , K_{cat}/K_m), determination of kinetics parameters using Lineweaver-Burk, Eddie-Hofstee plot, Scatchard plot; mechanisms of action of chymotrypsin, lysozyme; beta-lactamase, synthetic artificial enzymes.

UNIT II

Extraction and purification of enzymes, Physical and Chemical methods used for cell disintegration. Enzyme fractionation by precipitation (using Temperature, Salt, solvent, pH, chemicals), Liquid-liquid extraction, ionic exchange, Gel Chromatography, Affinity chromatograhya and other special purification methods. Enzymes for analytical and diagnostic applications. Multi enzyme complex, isozymes, Coenzymes, Ribozymes.

Unit-III

Enzyme Inhibition; mechanism and kinetics of competitive, non-competitive and un-competitive inhibition; model of enzyme inhibitions; kinetics of bi-substrate reaction, ping-pong reaction; multisubstrate reaction; theorell chance displacement. Allosteric enzymes; symmetrical and sequential model; Isozymes and their significances; Hill's coefficients; Cooperativity, positive and negative; Hemoglobin as a model for cooperativity; Enzyme regulation and feedback control, covalent modification

Unit-IV

Thermostable and cryostable enzymes; Protein engineering strategies to improve enzyme stability; CRISPR-Cas system, Engineered chimeric antibody, replacement of FC domains; catalytic antibodies (abzymes); Enzymes in bacterial resistance;

Unit-V

Engineering of therapeutics against diseases associated enzymes; Strategies for the discovery of improved and novel enzymes for industrial applications; Enzyme immobilization techniques; Industrial important enzyme; enzyme replacement therapy. Recent trends in enzymology research and techniques.

Suggested Readings

1. Enzymes: Biochemistry, Biotechnology and Clinical Chemistry by Trevor Palmer, Publisher; Horwood Publishing Limited (2004)
2. Enzymes: A Practical Introduction To Structure, Mechanism And Data Analysis by Robert A. Copeland, publisher: Wiley (2012)
3. Introduction to Enzyme and Coenzyme Chemistry, 3rd Edition by T.D.H. Bugg, publisher Wiley-Blackwell



4. Lehninger Principles of Biochemistry, Fourth Edition, David L. Nelson and Michael M. Cox. W. H. Freeman; 4th edition (2004)

Paper III: CC7 (M2BT-CT07): MOLECULAR BIOLOGY (THEORY)

Unit I

Eukaryotic and Prokaryotic genetic materials: Structure, chemical composition, organization, mechanism of replication. Discontinuous synthesis of DNA, RNA primer for DNA synthesis, Enzymes and proteins associated with DNA replication, repetitive DNA. DNA repair: photoreactivation, excision repair, post replication repair, SOS repair.

Unit II

RNA: types, primary, secondary, tertiary and quaternary structure and synthesis. Transcription: Prokaryotic transcription and RNA polymerase. Eukaryotic transcription and RNA polymerases. Transcription factors and their role. Modification in RNA: 5'-CAP formation, 3'-end processing, Polyadenylation, Splicing, Editing, Nuclear export of mRNA and mRNA stability. Processing of other RNAs, Ribosome formation. Reverse transcription. Inhibitors of RNA synthesis.

Unit III

Translation: Prokaryotic and Eukaryotic translation, mechanism of initiation, elongation & termination, Amino acid activation, Inhibitors, Regulation of translation, Co-& post translation modification of proteins. Protein sorting: synthesis of secretory and membrane proteins, import into nucleus, mitochondria, chloroplast and peroxisomes, Receptor mediated endocytosis.

Unit IV

Regulation of gene expression in prokaryotes and eukaryotes: Transcriptional control; enzyme induction and repression, constitutive synthesis of enzymes. The operon hypothesis: genes involved in regulation- regulatory gene, promoter gene, operator gene and structural gene, role of cAMP and cAMP receptor protein (CRP) in the expression of e.g. Lac operon, Tryptophan operon. Catabolite repression. Cis control elements, promoters, enhancers, Transacting factors, DNA binding motifs of transcription factors, post transcriptional control.

Unit- V Principles and applications of blotting techniques: Southern, Northern, Western and Eastern blotting. Polymerase chain reaction: Types and applications. Radioactive and non radioactive probes. Autoradiography. DNA fingerprinting, DNA Foot printing and DNA sequencing, Antisense and siRNA technology. Chromosome walking.

Suggested Readings

1. Watson, J.D. Molecular Biology of Gene. Pearson Education.
2. Friefelder, D. Molecular Biology. Narosa Publishing House, New Delhi.
3. Weaver, R. Molecular Biology. McGraw Hill.
4. Lewin, B. Gene VIII. Pearson Education.
5. Lodish and Baltimore. Molecular Cell Biology. W.H. Freeman and Co.



6. Cooper, M. The Cell – A molecular approach. Sinauer.
7. Daniel. Molecular Cell Biology. Scientific American Books.
8. Smith. Molecular Biology. Faber and Faber Publications.
9. Dabre, P.D. Introduction to (Practical) Molecular Biology. John Wiley and Sons Ltd. Meyers, R.A. (Ed). Molecular Biology and Biotechnology : A comprehensive desk reference. VCH Publishers, New York

Paper IV: CC8 (M2BC-CT08): BIOINFORMATICS (THEORY)

Unit I

Introduction to Bioinformatics: Definitions, important contributions, aim and task of bioinformatics.

Unit II

Biological Databases: Sequence databases (EMBL, GenBank, DDBJ, UNIPROT, TrEMBL), Protein family/domain databases (PROSITE, PRINTS, BLOCK, etc), Cluster databases-An Introduction, Specialised databases (KEGG, etc), Database technologies (Flat-file), Structural databases (PDB).

Unit III

Sequence Alignment & Protein structure prediction: Algorithm, goals and type of alignment, study of similarities, scoring mutations, deletions and substitutions, FASTA, BLAST, multiple sequence alignment.

Unit IV

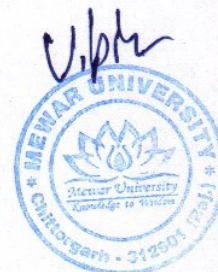
Protein structure prediction: Proteins-prediction strategies, secondary structure prediction, protein prediction program, molecular visualization.

Unit V

Phylogenetic Analysis: Building phylogenetic trees, distance base methods and character bases methods, molecular approaches to phylogeny, phylogenetic analysis databases.

Suggested Readings

1. Rastogi, S.C., Bioinformatics, Concept, Skills & Applications, CBS Publications.
2. Bioinformatics: Databases and Algorithms by N. Gautham; Narosa Publications.
3. Structural Bioinformatics by Bourne P.E. Ed Weissig; H. Wiley-Liss.
4. Bioinformatics for dummies by Claverie Jean M. & Notredame C.; H. Wiley-Liss.
5. Bioinformatics: Sequence and Genome analysis by David W. Mount; CBS Publishers



M.Sc. Biochemistry
SEMESTER-II
Skill Enhancement Course-I

Paper I: SEC1 (M2BC-SEC01): BIOSTATISTICS

Unit I

Types & Representation of data: Raw data, grouped data; Representation of data using Bar diagram, Pie diagram, Histogram, polygon.

Unit II

Measures of central tendency and dispersion: Mean, Median, Mode, Mean deviation, Variance & Standard deviation; Probability.

Unit III

Probability: Probability (classical & axiomatic definition of probability, theorem on total and compound probability), Addition & Multiplication theorem of Probability, Random variables & Probability Distribution, Simple problems involving Binomial, Poisson & Normal variables.

Unit IV

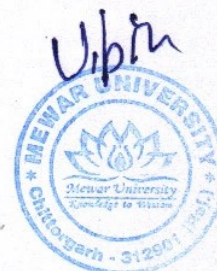
Hypothesis testing and parametric tests: Hypothesis-definition, types (One tailed, two tailed), Sampling distribution and errors, Types of errors (Type I, II); Testing of hypothesis (two tailed only); Z-test; t-test; Chi square-test; F-test. Non parametric tests: (Rank sum test, Kruskal Wallis test) Analysis of variance (ANOVA), Correlation and Regression.

Unit V

Methods of sampling: Probability Sampling and Non-probability Sampling methods.

Suggested Readings

1. Zar, J.H. Biostatistical Analysis. Pearson Edu.
2. Gupta, S.C. and Kapoor, V.K. Fundamentals of applied statistics. S. Chand and Company.
3. Dutta, N.K. Fundamentals of Biostatistics. Kanika Pub. New Delhi.
4. Arora, P.N. and Malhan, P.K. Biostatistics. Himalya Publishers.
5. Daniel, M. 1999. Biostatistics (3rd Edition). Panima Publishing Corporation.
6. Campbell, R.C. Statistics for Biologist. Cambridge University Press.
7. Introduction to Mathematics for Life Scientists. 3rd edition (1979). Edward Batschalet, Springer.
8. Introductory biostatistics. 1st edition. (2003), Chap T. Le. John Wiley, USA
9. Maths from scratch for biologists by Alan J. Cann; Wiley-Blackwell.
10. Easy Mathematics for Biologists by Peter C. Foster; Hardwood Academic Publisher.



Paper II: SEC1 (M2BC-SEC01): TECHNIQUES OF ANALYTICAL BIOCHEMISTRY

Unit-I

Different hybridization methods, Southern blotting, Northern blotting, Western blotting, South-western blotting, EMSA, Foot printing, Yeast Two hybrid system, Chromatin immuno-precipitation; Polymerase chain reaction, Thermostable polymerases and other component of PCR, Asymmetric PCR, methylation-specific PCR, Nested PCR, Inverse PCR, Anchored PCR, reverse transcriptase PCR, Real-time-PCR, efficiency of PCR,

Unit-II

Proteomics, Protein sequencing methods, Genomics, DNA sequencing methods, Next Generation Sequencing, Metagenomics. Species identification via r-RNA analysis, FAME analysis;

Unit-III

Radioisotopes and its half-life, specific activity, scintillator counter, proposal counter, Geiger Muller counter, Cerenkov counter and autoradiography, Application of PET, MRI and CT scan. Molecular Marker Analysis -RFLP maps, RAPD markers, AFLP markers, VNTR, SNP analysis, SCAR (sequence characterized amplified regions), SSCP (single strand conformational polymorphism).

Unit-IV

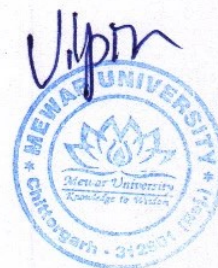
Principle and significance of UV-Vis spectroscopy, Fluorescence spectroscopy, FRET, Luminescence, Circular Dichroism, Infra-Red spectroscopy, Raman spectroscopy, Nuclear Magnetic Resonance, X-ray diffraction, Mass spectrometry; Immuno-electrophoresis, immune-precipitation, agglutination, RIA, ELISA, FACS, immune-fluorescence microscopy, Immuno-electron microscopy, Fluorescence In-situ hybridization (FISH).

Unit-V

Recent trends in analytical biochemistry research and techniques.

Suggested Readings

1. Christian, G. D., Analytical Chemistry, John Wiley & Sons (Asia) Pvt. Ltd., 2004.
2. Wilson, K. and Walker, J., Principles and Techniques of Practical Biochemistry and Molecular Biology, 7th Edition, Cambridge Univ. Press, 2010.
3. David Freifelder, Physical Biochemistry, 2nd edition, John Wiley and Sons 2005



DEPARTMENT OF LIFESCIENCE (BIOCHEMISTRY)
MEWAR UNIVERSITY, GANGRAR (CHITTORGARH)

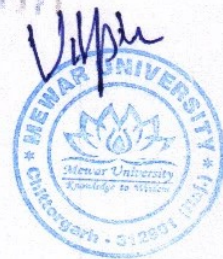
M.Sc. Biochemistry
III Semester
Session 2019-20 onwards

The examination shall consist of four theory papers and two practical

S. No.	Paper Code	CC/DSE/ SEC	Title	Credit
1	M3BC-CT09	CC9	Clinical Biochemistry	4
2	M3BC-CT10	CC10	Immunology	4
3	M3BC-ET01	DSE1	Genetic Engineering	4
		DSE1	Protein Engineering	4
4	M3BC-ET02	DSE2	Nutritional Biochemistry	4
		DSE2	Principles of Evolutionary and Developmental Biology	4
5	M3BC-CP05	CC5-PR	Core Practical-5	4
6	M3BC-EP01	DSE1-PR	DSE Practical-1	4
Total				24

Note:

- CC - Core Course
- DSE - Discipline Specific Elective Courses
- PR- Practical
- Students will opt any two Discipline Specific Elective Courses (DSE) out of given options



Paper I: CC9 (M3BC-CT09): CLINICAL BIOCHEMISTRY (THEORY)

Unit I

Quality control, accuracy, precision, specificity, sensitivity and limitation of errors allowable in the laboratory; Chemistry, composition & functions of lymph, CSF, and synovial fluid; Urine formation, excretion and urine analysis; collection of bloods, anti-coagulants, preservatives of blood; Composition, chemistry & functions of specialized tissues like i.e. bone, brain, adipose tissue, etc.

Unit II

Clinical investigation of sugar levels in blood and urine; factors influencing blood glucose level; carbohydrate tolerance tests, glycogen storage diseases; Biosynthesis of bile acids, bile pigments and steroid hormones, plasma lipoproteins,

Unit III

Disorders associated with lipid metabolism and its therapeutic intervention, ketone bodies and ketosis Unit-II Hemoglobin, Met-Hb, embryonic-Hb, heme metabolism associated diseases, sickle cell anemia, thalassemia, malnutrition, measurement of fuel values of foods, measurement and calculation of BMR, Metabolic disorders of amino acid metabolism and urea cycle, phenylketonuria, alkaptonuria, albinism, Lesch-Nyhan syndrome, disorders of nucleic acids metabolism

Unit IV

Biochemical mechanism of blood clotting and hemorrhagic disorders, disseminated intravascular coagulation, acquired prothrombin complex disorders. Biochemistry of vitamins and micronutrients, biochemical basis of diseases with their deficiency

Unit V

Electrolytes, reabsorption of electrolytes, acid-base balance, regulation of electrolyte content of body fluids and maintenance of pH, regulation of sodium and water balance, renin-angiotensin system, clinical investigation of sodium, potassium, chloride; Pathophysiology of different diseases like diabetes, Jaundice, Fatty liver, atherosclerosis, and osteoporosis; Functional test of liver, kidney, thyroid, gastrointestinal and pancreas, biochemical diagnosis of diseases by enzymatic assays; Clinical tissue analysis, biopsy, liquid biopsy, circulating RNA and DNA as molecular diagnosis of different diseases. Recent trends in clinical biochemistry research and techniques.

Suggested Readings

1. Harpers Illustrated Biochemistry 30th Edition, McGraw-Hill Education, 2015 27
2. Clinical Biochemistry and Metabolic Medicine Eighth Edition by Martin Andrew Crook, CRC Press, 2012
3. Textbook of Biochemistry for Medical Students, 7th edition, by D M Vasudevan, Sreekumari S, KannanVaidyanathan, 2010, Jaypee.
4. Clinical chemistry: Techniques, Principles, Correlations , 6th Edition, by Bishop, Fody and Schoeff, 2012, Lippincott Williams & Wilkins



Paper II: CC10 (M3BC-CT10): IMMUNOLOGY (THEORY)

Unit-I Introduction to Immune system: Basic concept of immune system, cells and organs of immune system, lymphoid cells (B- lymphocytes, T- lymphocytes and Null cells), mononuclear cells (phagocytic cells and their killing mechanisms), granulocytic cells (neutrophils, eosinophils and basophils), mast cells and dendritic cell. Structure and functions of primary and secondary lymphoid organs.

Unit-II

Innate Immunity: TLR receptors and sensing of PAMPs. Opsonization, Fc Receptors, prostaglandins and leukotrienes. Antigen, super antigens, immunogens, adjuvants, antigen processing, antibody structure and function, classification of immunoglobulins, concept of variability, cross reactivity, isotypes, allotypes and idiotypic markers, class switching, receptor and soluble form of immunoglobulins.

Unit-III

B and T cell Immunology- B and T cell development, differentiation, maturation, clonal anergy, humoral immune response; B cell differentiation, antibody engineering, BCR and pre-BCR, Receptor editing, complement system, classical and alternative pathways

Unit-IV

concept of histocompatibility, structure and function of class I and class II MHC molecules, structure of HLA complexes. T cell receptors, Antigen presentation cells, APC-T cell interaction, T cell differentiation in thymus, Th1, Th2, Th17, Treg cells and cytokines, chemokines, cytotoxic T cells, natural killer cells, dendritic cells.

Unit-V

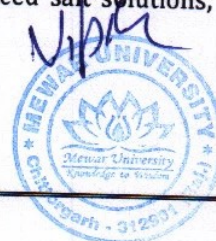
Antigen dependent cell cytotoxicity, cytotoxicity reactions, CD8+ T cell cytotoxicity, autoimmunity, acquired immunodeficiency, hypersensitivity reactions, grafting and transplantation immunology, hostpathogen interaction, immunotherapy, T cell immunotherapy & B cell immunotherapy. Vaccines, different types of vaccines and its significance, monoclonal and polyclonal antibody production, hybridoma technology. Recent trends in immunology research and techniques.

Suggested Readings

1. Kindt, T. J., Osborne, B. A. and Goldsby, R. A. Kuby Immunology, 6th Edition, W. H. Freeman, 2006.
2. Abbas, A. K., Lichtman, A. H. and Pillai, S., Cellular and Molecular Immunology, 6th Edition, Saunders, 2007.
3. Roitt's, Essential Immunology. Ivan M Roitt & Peter J. Delves. 10th edition. Blackwell Publishing.

Unit I

Animal Cell Culture: Historical events, equipments, Materials & Techniques of animal cell culture. Types of animal cell culture. Culture Media: Natural & Artificial media, balanced salt solutions,



Serum and protein free defined Media & their applications. Physiochemical properties of different constituents of culture Medium. Control, testing and storage of media. Maintenance of cell culture.

**M.Sc. Biotechnology
SEMESTER-III**

Discipline Specific Elective

Paper III: DSE1 (M3BC-ET01): GENETIC ENGINEERING (THEORY)

Unit I

Recombinant DNA Technology: History and Milestones In Genetic Engineering, Application of enzymes in recombinant DNA technology- exo and endonucleases, restriction enzymes, DNA ligases, polymerases, DNA modifying enzymes etc. General concept and principle of cloning: Cloning vectors, classification, plasmids: pBR 322, pBR327, pUC8. Phage vectors: M13 and λ . Phagemids and cosmids.

Unit II

Purification of DNA from living cells- Extraction of bacterial DNA, Plasmid DNA. Isolation of DNA, molecular probes, insertion of DNA into living cell- microinjection, electroporation, shot gun method, ultrasonication, microlaser, uptake of DNA by bacterial cell and introduction of phage DNA in to bacterial cell. Nucleic acid purification, yield analysis.

Unit III

Cloning Methodologies: Methods for construction of genomic and cDNA libraries; Lambda in vitro packaging; Identification and analyses of recombinant DNA clones; Protein-protein interaction and Yeast two hybrid system; Phage display; Ligation free cloning

Unit IV

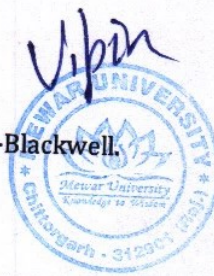
Gene Sequencing: Different methods of gene isolation, techniques for sequencing (Maxam & Gilbert degradation method, Sanger's Dideoxy method), Organo-chemical gene synthesis mechanism, cDNA using reverse transcriptase.

Unit V

Applications of Genetic Engineering, Genetic engineering in animals: Production and applications of transgenic mice, role of ES cells in gene targeting in mice, Therapeutic products produced by genetic engineering Gene silencing in transgenic plants, Commercially important transgenic plants (Flavr Savr, Bt cotton, Golden rice), rDNA regulations in transgenic plants.

Suggested Readings

1. Gene Cloning and DNA Analysis: An Introduction by T.A. Brown; Wiley-Blackwell.
2. Principles of Gene Manipulation by S.B. Primrose, R.M. Twyman and R.W.Old; Wiley-Blackwell.



3. Molecular Cloning: A Laboratory Manual by J. Sambrook and D.W. Russel; Cold Spring Harbor Laboratory Press.

4. An introduction to genetic engineering by Desmond S. T. Nicholl; Cambridge University Press.

Paper III: DSE1 (M3BC-ET01): PROTEIN ENGINEERING (THEORY)

Unit-I

Protein structural families Introduction; Basic structural principles: amino acids and their conformational accessibilities, Ramachandran Plot; Motifs of protein structures and their packing; Schematic and topology diagrams.

Unit-II

Families of protein structures: alpha, alpha/beta, beta, small etc, Protein folding and assembly, Protein folding pathways in prokaryotes and eukaryotes; Single and multiple folding pathways; Protein folding of single domain and multi-domain proteins; Inclusion bodies and recovery of active proteins;

Unit-III

Osmolyte assisted protein folding; Structure of chaperones and role of chaperones in protein folding Unit-II Protein engineering Strategies for protein engineering; Random and sitedirected mutagenesis; Various PCR based strategies; Role of low-fidelity enzymes in protein engineering;

Unit-IV

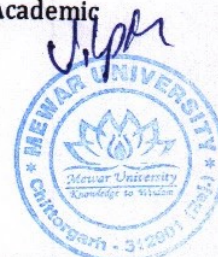
Gene shuffling and Directed evolution of proteins; Protein backbone changes; Antibody engineering; All topics will deal with case studies.

Unit-V

Prediction and design of protein structures, Similar structure and function of homologous proteins; Role of multiple alignment; Homology and ab-initio method for protein structure prediction; Phage display systems; Yeast surface display system, Structure based drug design and case studies, Rational protein design. All topics will deal with case studies. Recent trends in Protein Engineering research and techniques. Recent trends in protein engineering research and techniques.

Suggested Readings

1. Introduction to Protein structure, 2nd Ed by Carl Branden and John Tooze, Garland Press, 1999
2. Structure and Mechanism in Protein Science, Alan Fersht, Freeman, 1999.
3. Protein engineering handbook. Edited by Stefan Lutz - Uwe Bornscheuer. Weinheim: Wiley VCH, 2009. xli, 409-9. ISBN 9783527318506.
4. Protein engineering in Industrial biotechnology, Ed. Lilia Alberghina, Harwood Academic Publishers, 2002.



Paper IV: DSE2 (M3BC-ET02): NUTRITIONAL BIOCHEMISTRY (THEORY)

Unit-I

Nutrition: Basic concepts, scope and methodology; principal food components. Water as an essential nutrient. Vitamins: structure and function; Essential elements as food nutrients: classification and distribution; recommended allowances and their modifications under stress conditions; deficiency and excess of principal nutritional components.

Unit-II

Nutrition and Diet: Formula diets and crash diets; balanced diets; dietary standards; food preservatives. Energy requirements: basal metabolic rate (BMR); factors affecting BMR and its measurement; resting metabolic rate; anthropometric measurements and obesity.

Unit-III

Assessment of nutritional status and Recommended Daily allowances. Diseases associated with Digestive system: Maldigestion, malabsorption, celiac disease, creatorrhoea, diarrhea, ulcers and steatorrhoea.

Unit-IV

Introduction to Nutraceuticals: Historical perspective, classification, scope & future prospects. Sources of Nutraceuticals.

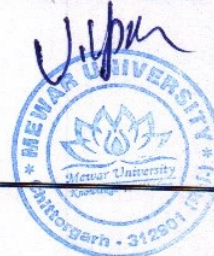
Properties, Structure and Functions of Various Nutraceuticals: Glucosamine, Octacosanol, Lycopene, Carnitine, Melatonin and Ornithine alpha ketoglutarate. Use of proanthocyanidins, grape products, flaxseed oil as Nutraceuticals.

Unit-V

Applied Aspects of the Nutraceutical Science: Relation of Nutraceutical Science with other Sciences: Medicine, Human physiology, genetics, food technology, chemistry and nutrition. Nutraceuticals bridging the gap between food and drug. Nutraceutical remedies for common disorders like Arthritis, Bronchitis, circulatory problems, hypoglycemia, Nephrological disorders, Liver disorders, Osteoporosis, Psoriasis and Ulcers etc. Nutraceutical rich supplements e.g. Beepollen, Caffeine, Green tea, Lecithin, Mushroom extract, Chlorophyll, Kelp and *Spirulina*. Types of inhibitors present in various foods and their inactivation. Probiotics and Prebiotics as nutraceuticals. Recent advances in techniques & feeding of substrates.

Suggested Reading:

1. Tom B, (1998) *Nutritional Biochemistry*, 2nd ed, Academic Press, London.
2. Steven HW, Steven J, et al. (2002). *Health promotion and disease prevention in clinical practice*, 2nd ed. J.B. Lippincott & Co.
3. Ramesh, C.G. (2010). *Nutraceuticals: Efficacy, Safety and Toxicity*, Academic Press Inc.
4. Debasis B., Harry G.P, and Anand S. (2015). *Nutraceuticals and Functional Foods in Human Health and Disease Prevention*. CRC Press.



Paper V: DSE2 (M3BC-ET02): PRINCIPLES OF EVOLUTIONARY AND DEVELOPMENTAL BIOLOGY (THEORY)

Unit I:

Origin of Life: Lamarckism, Darwinism, Concepts of variation, adaptation, struggle, Mendelism, Spontaneity of mutations, Theories of phyletic gradualism vs. punctuated equilibria, Modern evolutionary synthesis. Origin of basic biological molecules, Abiotic synthesis of organic monomers and polymers, Concept of Oparin and Haldane model, Origin of eukaryotic cells, Evolution of unicellular eukaryotes, Anaerobic metabolism, Photosynthesis and aerobic metabolism

Unit II:

Basic Concepts of Development: Totipotency, Commitment, Specification, Induction, Competence, Determination and Differentiation, Morphogenetic gradients, Cell fate and cell lineages, Stem cells, Genomic equivalence and cytoplasmic determinants. Model organisms in Developmental biology (*Drosophila*, *C. elegans*, *Xenopus*)

Unit III:

Gametogenesis, Fertilization and Cell Death: Production of gametes, Cell surface molecules in sperm-egg recognition in animals; Embryo-sac development and double fertilization in plants, Zygote formation, cleavage, blastula formation, embryonic fields, gastrulation and formation of germ layers in animals. Embryogenesis and establishment of symmetry in plants, Seed formation

Unit IV:

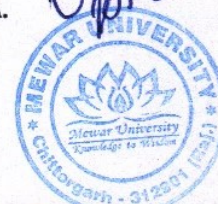
Molecular Genetic Basis for Developmental Events: Genetic and molecular control of development of limbs, Gastrointestinal system and cardiovascular system. Cell-Cell Communication and Signaling. Apoptosis, Caspases, Importance of programmed cell death (PCD) in animal/plant development.

Unit V:

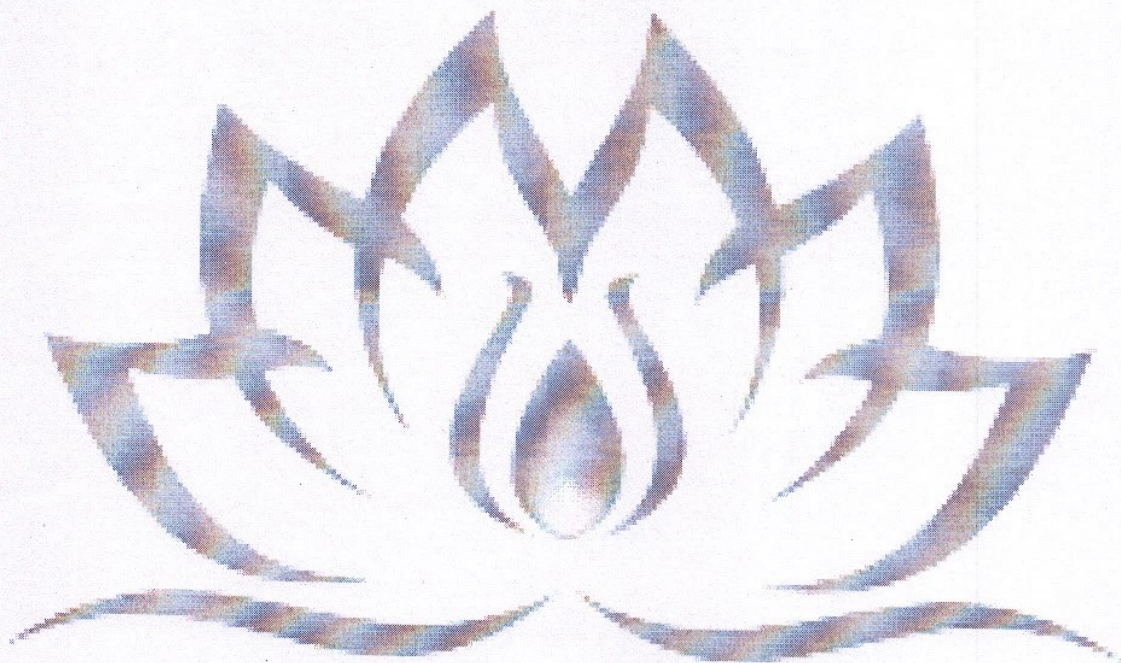
Medical implications of developmental biology: genetic errors/ teratogenesis/ stem cell therapy.

Suggested Reading:

1. Darwin, C.R. (1911). On the origin of species by means of natural Selection, or preservation of favoured races in the struggle for life. Hurst Publishers, UK.
2. Dawkins, R. (1996). The Blind Watchmaker, W.W. Norton & Company Jones and Bartlett Publishers.
3. Futuyma, D.J. (2009). Evolution. Sinauer Associates Inc. USA.
4. Hake, S. and Wilt, F. (2003). Principles of Developmental Biology. W.W. Norton & Company, New York, USA.
5. Hall, B.K. and Hallgrimsson, B. (2007). Strickberger's Evolution. Jones and Bartlett Publishers, India.
6. Lewin, R. (2004). Human Evolution - An Illustrated Introduction. Wiley-Blackwell, USA.
7. Scott, F. and Gilbert, S.F. (2010). Developmental Biology. Sinauer Associates, Inc. USA.

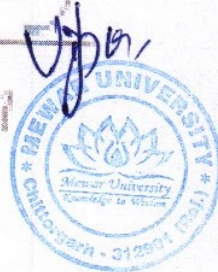


8. Slack, J.M.W. (2005). *Essential Developmental Biology*, Wiley-Blackwell, USA.
9. Green, D. R. & Reed J. C. (2010). *Apoptosis: Physiology and Pathology*. Cambridge press, UK.
10. Sadler, T.W., Tosney, K., Chescheir, N.C., Imseis, H., Leland, J. and Sadler- Redmond, S., L. (2011). *Langman's Medical Embryology (Longmans Medical Embryology)*. Lippincott Williams and Wilkins.
11. Schaefer, B.D. (2013). *Medical Genetics: An integrated Approach*. McGraw Hill Education, New Delhi.



Mewar University

Knowledge to Wisdom



DEPARTMENT OF LIFESCIENCE (BIOCHEMISTRY)
MEWAR UNIVERSITY, GANGRAR (CHITTORGARH)

M.Sc. Biochemistry
IV Semester
Session 2019-20 onwards

Choice of A or B				
A.				
S. No.	Paper Code	CC/DSE/ SEC	Title	Credit
1	M4BC-PJ01	Training	Major Research Project (Research Work/Training)	26
B.				
1	M4BC-PJ02	Minor Project	Minor Research Project	14
2	M4BC-ET03	DSE3	Research Methodology	4
			Secondary Metabolites and Metabolic Engineering	4
3	M4BC-ET04	DSE4	Molecular Medicine	4
			Genomics & Proteomics	4
4	M3BC-EP02	DSE2 PR	DSE Practical-2	4
	Total			26

Note:

- CC - Core Course
- DSE - Discipline Specific Elective Courses
- PR- Practical
- Students will opt any two Discipline Specific Elective Courses (DSE) out of given options.
- In 4th semester the students have an option of either doing Major research project (MRP) or he/she can do Minor Research Project along with take any two DSE electives.

CHOICE A. Major Research Projects (M4BC-PJ0)

CHOICE B. 2 Minor Research Projects + 2 DSE



Paper I: Minor Project (M4BC-PJ02)

Discipline Specific Elective

PAPER II: DSE3 (M4BC-ET03): RESEARCH METHODOLOGY (THEORY)

Unit I:

Foundations of Research: Meaning, Objectives, Motivation, Utility. Concept of theory, empiricism, deductive and inductive theory. Characteristics of scientific method – Understanding the language of research – Concept, Construct, Definition, Variable. Research Process, Problem Identification & Formulation – Research Question, Investigation Question, Measurement Issues, Hypothesis–Qualities of a good Hypothesis, Null Hypothesis & Alternative Hypothesis. Hypothesis Testing – Logic & Importance

Unit II:

Research Design: Concept and Importance in Research, Features of a good research design, Exploratory Research Design– concept, types and uses, Descriptive Research Designs– concept, types and uses. Experimental Design: Concept of Independent & Dependent variables.

Unit III:

Sampling: Concepts of Statistical Population, Sample, Sampling Frame, Sampling Error, Sample Size, Non Response. Characteristics of a good sample. Probability Sample – Simple Random Sample, Systematic Sample, Stratified Random Sample & Multi-stage sampling. Determining size of the sample – Practical considerations in sampling and sample size

Unit IV:

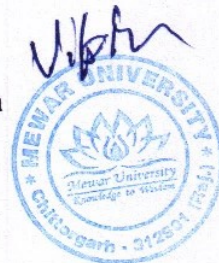
Data Analysis: Data Preparation– Univariate analysis (frequency tables, bar charts, pie charts, percentages), Bivariate analysis – Cross tabulations and Chi-square test including testing hypothesis of association. Interpretation of Data and Paper Writing – Layout of a Research Paper, Journals in Science, Impact factor of Journals, When and where to publish? Ethical issues related to publishing, Plagiarism and Self-Plagiarism

Unit V:

Use of Encyclopedias, Research Guides, Handbook etc., Use of tools / techniques for Research: methods to search required information effectively, Reference Management Software like Zotero/Mendeley, Software for paper formatting like LaTeX/MS Office, Software for detection of Plagiarism

Suggested Readings

1. Business Research Methods – Donald Cooper & Pamela Schindler, TMGH, 9th edition
2. Business Research Methods – Alan Bryman & Emma Bell, Oxford University Press.
3. Research Methodology – C.R.Kothari



PAPER II: DSE3 (M4BC-ET03): SECONDARY METABOLITES AND METABOLIC ENGINEERING (THEORY)

Unit - I

Secondary Metabolites in Plants-I: Terpenoids-Mevalonate pathway and Methylerythritol phosphate pathway, Monoterpenes (C10), Sesquiterpenes (C15), Triterpenes (C30), Diterpenes (C20), Tetraterpenes (C40) and Polyterpenoids, Phenolics-shikimic acid pathway and Malonic acid Pathway, Simple Phenolics (trans-cinnamic acid, p-coumaric acid and their derivatives),

Unit - II

Secondary Metabolites in Plants-II: Complex Phenolics (Lignin), Flavonoids, Tanins (Condensed tannin and Hydrolyzable tannins); Nitrogen containing compounds- Alkaloids (Cocaine, Nicotine, Morphine, Caffeine, pyrrolizidine alkaloids), Cyanogenic Glycosides; Glucosinolates

Unit - III

Secondary Metabolites in Microbes: Organic Metabolites-Ethanol, Acetone; Citric acid, Acetic acid, Lactic acid, Gluconic acid, Itaconic acid, Amino acids; Enzymes- Amylases, Glucose Isomerase, L Asparaginase, Proteases, Renin, Penicillin acylases, Lactases, Pectinases, Lipases; Vitamins- Vitamin B12, Riboflavin, B carotene; Antibiotics: beta-Lactam antibiotics; Amino acid and peptide antibiotics; Carbohydrate antibiotics; Tetracycline and antracyclines; Nucleoside antibiotics; Aromatic antibiotics.

Unit - IV

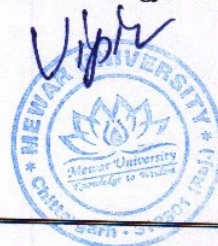
Metabolic Engineering of Plants & Micro-organisms: Introduction to metabolic engineering: Concept and importance of metabolic engineering, basic enzyme kinetics, metabolite regulation of metabolic pathways, basic metabolic control analysis (MCA), metabolic fluxes and basic flux balance analysis (FBA), Applications of MCA and FBA for the improvement of microbial strains and plant cells fermentation processes.

Unit - V

Tutorials & Case Studies: Practical for the use of software tools for construction and simulation of small metabolic pathways, Case study using one genome scale metabolic model for the strain improvement for the production of organic metabolites- Ethanol, Acetone; Citric acid, Acetic acid, Lactic acid (Introduction only).

Suggested Readings:

1. Taiz, L. and Zeiger, E. (2010). Plant Physiology. Sinauer Associates Inc., USA.
2. Dey, P.M. and Harborne, J.B. (2000). Plant Biochemistry. Academic Press, UK.
3. Goodwin, T.W. and Mercer, E.I. (2003). Introduction to Plant Biochemistry. CBS Publishers & Distributors, New Delhi, India.
4. Crueger, W. and Crueger, A. (1990). Biotechnology. A Textbook of Industrial Microbiology. Sinauer Associates, USA.



5. Demain, A. and Solomon, N.A. (1950). Biology of Industrial microorganisms. Menlo Park, Calif.: Benjamin/Cummings Pub. Co., Advanced Book Program, CA.
6. David Fell (1997) Understanding the Control of Metabolism, Portland Press, London.
7. Segel, I.H. (1993) Enzyme Kinetics: Behavior and Analysis of Rapid Equilibrium and Steady-State Enzyme Systems. ISBN: 978-0-471-30309-1, 992 pages, Wiley Publication.
8. Stephanopoulos. (1998). Metabolic Engineering: Principles & Methodologies, Published by cbspd
9. Sang Yup Lee, E. Terry Papoutsakis. (1999). Metabolic Engineering, CRC Press
10. Orth, J.D., Thiele, I., and Palsson, B.Ø. What is flux balance analysis?. Nature Biotechnology, 28: 245-248 (2010)

PAPER IV: DSE4 (M4BC-ET04): MOLECULAR MEDICINE (THEORY)

Unit I

Molecular basis of fungal, protozoan, bacterial and viral interactions with the human host that leads to infection and diseases, Role of virulence factors, Pathogenicity Island, Bacterial toxins; endotoxins and exotoxins,

Unit II

The mode of action of antimicrobial drugs and the mechanism of antimicrobial resistance, Identification and validation of new molecular targets for better microbial therapeutics, advanced methods of microbial diagnostics.

Unit III

Cellular and molecular basis of major complex diseases such as diabetes, cardiovascular diseases and cancer, Genetics and epigenetics in metabolic disorders, metabolic profiling, the impact of lifestyle and environment in metabolic disorders diseases, biomarker discovery, animal model of diseases, Surveillance model for epidemiology studies.

Unit IV

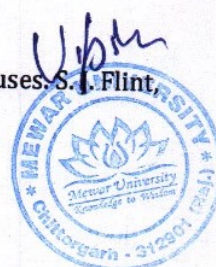
Therapeutics drugs and classes, Peptide therapeutics, monoclonal antibodies, the pharmacodynamics of different classes of drugs, Mechanisms of toxicity, therapeutic index, mechanisms of detoxification,

Unit V

Medicinal plant products or secondary metabolites, Stem Cells in therapy, Gene therapy, personalized medicine, Challenges in therapeutics and vaccine development. Recent trends in molecular medicine research and techniques.

Suggested Readings:

1. Virology: Principles and Applications John Carter, Venetia Saunders,
2. Principles of Virology: Molecular Biology, Pathogenesis, and Control of Animal Viruses. S. I. Flint, V. R. Racaniello, L. W. Enquist, V. R. Rancaniello, A. M. Skalka.



3. Microbiology, Michael J Pelczar, Tata McGraw, India.
4. Introduction to Molecular Medicine, Ross Dennis W., Springer-Verlag New York Inc
5. Molecular Medicine, R.J. Trent, Academic Press
6. Molecular Medicine: An Introduction, Jens Kurreck, Cy Aaron Stein, Wiley-Blackwell

PAPER V: DSE5 (M5BC-ET05): GENOMICS & PROTEOMICS (THEORY)

Unit I:

Introductory genomics Introduction to Genomics, Anatomy of prokaryotic and eukaryotic genome, content of genome, Cvalue paradox, CoT curve analysis, repetitive DNA, tools to study genome diversity (PCR/ RFLP).

Unit II:

Applied Genomics Strategies for major genome sequencing projects, approaches and assembly methods, NGS methods and advantages, gene analysis and annotation.

Unit III:

Transcriptomics and expression profiling Genome expression analysis, RNA content and profiling, genetic mapping, Microarray (cDNA and protein microarray)

Unit IV:

Introductory proteomics Importance of proteomics, strategies in analysis of proteome: 2-D PAGE, Mass spectrometry, Protein sequencing method (Edman degradation, MALDI TOF/TOF). Structure of protein and formation of oligomers, Protein solubility and interaction with solvents and solutes, activity of proteins.

Unit V:

Applied proteomics Databases and search engines in proteomics, Post translational protein modifications, protein localization Protein: protein interaction: Yeast two hybrid system, phage display, GST pull down, affinity based methods, Disease related proteins and drug discovery, Disease diagnosis, identification and characterization of novel proteins, protein engineering principles.

Suggested Readings

1. Database Annotation in Molecular Biology: Principles and Practice, Arthur M. Lesk
2. Bioinformatics : Sequence and genomic analysis by D. W. Mount, Cold Spring Harbour
3. New York. Introduction to proteomics: Tools for new biology by Daniel C. Liebler, Humana Press
4. Genomics: the science and technology behind the human genome project. 2000, Ed. C. Cantor and C.L. Smith. Wiley-Interscience.
5. A primer of genome science. 2002. G. Gibson, S.V. muse, Sinauer associates Inc. Publisher ss.
6. Protein biochemistry and proteomics. 2006. H. Rehm. Academic Press.



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

Conservation Biology

UNIT I

Introduction to Conservation Biology: Principles and goals of conservation biology, Historical context and emergence of conservation biology, The role of conservation in preserving biodiversity

UNIT II

Conservation Genetics: Genetic diversity and its importance in conservation, Genetic techniques for assessing population health, Conservation genetics in captive breeding and reintroduction programs

UNIT III

Protected Areas and Conservation: Design and management of protected areas, Ecological principles in protected area planning, Conservation challenges in protected areas

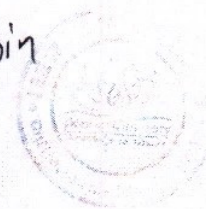
UNIT IV

Wildlife Conservation: Conservation of endangered and threatened species, Wildlife management and conservation strategies, Human-wildlife conflict and its resolution

UNIT V

Conservation of Ecosystems: Conservation of forests, wetlands, and marine ecosystems, Ecological restoration and habitat conservation, Conservation of critical ecosystems (e.g., coral reefs, rainforests)

Vibin



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

Plant Biochemistry

UNIT I

Introduction to Biochemistry: Biomolecules and their classification, Chemical properties of biomolecules, Structure and function of enzymes

UNIT II

Metabolism of Carbohydrates: Glycolysis and gluconeogenesis, Citric acid cycle, Glycogen metabolism

UNIT III

Metabolism of Lipids: Fatty acid metabolism, Synthesis and breakdown of triglycerides, Lipid signaling molecules

UNIT IV

Metabolism of Amino Acids and Proteins: Amino acid biosynthesis and degradation, Protein synthesis and folding, Enzymes and their regulation

UNIT V

Techniques in Plant Biochemistry: Protein purification and characterization, Chromatographic techniques, Spectroscopic and biochemical assays



**MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE**

Bioinstrumentation

UNIT I

Introduction to Bioinstrumentation, Definition and scope of bioinstrumentation, Historical developments and key milestones, Overview of applications in biomedical research and healthcare

UNIT II

Sensors and Transducers, Principles of sensor operation and measurement, Types of sensors used in bioinstrumentation (e.g., electrodes, biosensors), Signal conditioning and amplification techniques

UNIT III

Signal Acquisition and Processing, Analog and digital signal processing techniques, Noise reduction and filtering methods, Data acquisition systems and signal analysis

UNIT IV

Bioimaging Systems, Principles of medical imaging (e.g., X-ray, ultrasound, MRI), Optical imaging techniques (e.g., fluorescence, confocal microscopy), Image reconstruction and analysis methods

UNIT V

Biomedical Diagnostic Instruments, Electrocardiography (ECG) and electroencephalography (EEG)

Blood pressure and blood glucose monitoring devices, Diagnostic imaging instruments (e.g., ultrasound scanners)

Recommended Textbooks:

- "Introduction to Biomedical Engineering Technology" by Laurence J. Street
- "Biomedical Instrumentation and Measurement" by Leslie Cromwell, Fred J. Weibell, Erich A. Pfeiffer
- "Biomedical Sensors" by Deric P. Jones, David A. Rubenstein
- "Principles of Biomedical Instrumentation and Measurement" by Aston and Sutton



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

Toxicology

UNIT I

Introduction to Toxicology, Definition and scope of toxicology, Historical developments and key milestones, Interdisciplinary nature of toxicology

UNIT II

Types of Toxic Agents, Chemical toxins: metals, pesticides, industrial chemicals, etc., Biological toxins: toxins produced by microorganisms, plants, and animals, Physical agents: radiation, noise, temperature extremes, etc.

UNIT III

Modes of Toxic Action, Toxicokinetics: absorption, distribution, metabolism, and excretion (ADME)

Mechanisms of toxicity: target organ toxicity, genotoxicity, immunotoxicity, etc. Receptor-mediated toxicity and molecular interactions

UNIT IV

Dose-Response Relationships, Threshold and non-threshold responses, Acute and chronic toxicity

Quantitative measures of toxicity: LD50, IC50, NOAEL, etc.

UNIT V

Toxicological Assessment and Testing, In vitro and in vivo toxicity testing methods, Animal models in toxicology, Alternative methods and in silico approaches in toxicity assessment

Recommended Textbooks:

- "Principles of Toxicology" by Karen E. Stine, Thomas M. Brown, and Robert L. Snyder
- "Casarett & Doull's Essentials of Toxicology" by Curtis D. Klaassen
- "Introduction to Environmental Toxicology: Molecular Substructures to Ecological Landscapes" by Wayne Landis, Ruth Sofield, and Ming-Ho Yu
- "Hayes' Principles and Methods of Toxicology" edited

Vijin

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

ENZYME AND REACTION KINETICS

Unit I

Definition of enzymes; active site, substrate, coenzyme, cofactor and different kinds of enzyme inhibitors;

Unit II

Enzyme kinetics, two substrate kinetics, three substrate kinetics, deviation from linear kinetics; ligand binding studies; rapid kinetics; association and dissociation constants;

Unit III

Use of isotopes in enzyme kinetics mechanism analysis; effect of pH, temperature and isotopically labeled substrates on enzyme activity; allosteric model of enzyme regulation; substrate induced conformational change in enzyme;


Unit IV

Techniques for purifying and characterizing proteins and enzymes; Estimation of proteins, enzyme kinetics, effects of pH and temperature on enzyme, use of inhibitors for active site determination, chromatographic techniques, purification of enzymes,

Unit V

Idea of all analytical techniques like electrophoresis, liquid chromatography, crystallography, column chromatography for enzyme protein analysis.

Vipin



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

MICROBIAL CELL BIOLOGY

Unit I

As a basic unit of living systems; precellular evolution of cell; the evolution of cell from prokaryotes to eukaryotes and from single cells to multicellular organisms

Unit II

Structure of the cell; Bacterial Cell wall: structures, diversities and biosynthesis, different cell wall hydrolyzing enzymes; bacterial endospores: structure, formation and germination

Unit III

Uncommon bacterial genera: Rickettsia, Chlamydia, Mycoplasma, sheathed bacteria, stalked and budding bacteria, gliding bacteria including Myxobacteria. Cellular structure and function; flagella, pili, capsules; specialized features of higher bacteria like budding, gliding bacteria etc.; fruiting body formation in myxobacteria.

Unit IV

Internal organization of the cell; Cell membrane structure; membrane constituents; phospholipids, glycolipids, cholesterol, membrane proteins, receptors and phospholipases; bilayer structure, asymmetry, fluid mosaic model of random diffusion of membrane components, domains in membrane- natural and artificial membranes

Unit V

General strategies of cell division: bacteria and yeast, molecular genetics of cell cycle regulation; Cell signaling; Chemotaxis, Quorum sensing; Regulation of biofilm formation



ANTIBIOTICS

UNIT I

Definition, phenomenon of antibiotics, concept of secondary metabolites. Role of antibiotics in the producer organism.

UNIT II

Assay of antibiotics: chemical versus microbiological assay system, different methods of antibiotic assays (serial dilution, photometric and agar-diffusion methods) - theory and practice; Chemical and biochemical modification of antibiotic structures:

UNIT III

Development of antibiotics (different generations of antibiotics) taking penicillins and chloramphenicols as parent compounds. Phenomenon of antibiotic resistance.

UNIT IV

Different biochemical mechanisms of resistance development, multiple-drug resistance, its genetics and chemical significance. Biochemical modes of action of antibiotics acting as inhibitors of ribosomal function (as for example aminoglycosides, tetracyclines, puromycin, chloramphenicol, microlides etc.).

UNIT V

Inhibitors of nucleic acid metabolism (actinomycin D, mitomycin C etc.), inhibitors of cell wall biosynthesis (penicilline, bacitracins etc.) and inhibitors of membrane function (polyenes, tunicamycin, ionophores etc.).



**MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE**

ETHOLOGY

UNIT I

Introduction to Ethology, Definition and scope of ethology, Historical perspectives and key contributors, Methods and approaches in ethological research

UNIT II

Behavioral Ecology, Evolutionary explanations for animal behavior, Fitness, adaptation, and natural selection, Ecological constraints and trade-offs

UNIT III

Animal Communication, Types of animal signals (visual, auditory, chemical), Signal production, reception, and interpretation, Communication networks and functions

UNIT IV

Social Behavior, Social organization and grouping patterns, Mating systems and sexual selection
Cooperative behavior and altruism

UNIT V

Learning and Cognition, Classical and operant conditioning, Spatial learning and memory, Problem-solving and innovative behavior

Textbook: "Animal Behavior: An Evolutionary Approach" by John Alcock



**MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE**

Animal Genetics and Genomics

UNIT I

Introduction to Animal Genetics, Definition and scope of animal genetics, Mendelian inheritance and genetic terminology, Chromosome structure and gene mapping

UNIT II

Genetic Variation and Population Genetics, Sources of genetic variation, Hardy-Weinberg equilibrium and genetic drift, Factors influencing genetic diversity in animal populations

UNIT III

Quantitative Genetics and Animal Breeding, Heritability and genetic components of traits, Selection methods and breeding value estimation, Genetic improvement programs and selection indexes

UNIT IV

Molecular Genetics and DNA Analysis, DNA structure and replication, Transcription and translation processes, Polymerase chain reaction (PCR) and DNA sequencing techniques

UNIT V

Gene Mapping and Genomic Analysis, Linkage mapping and genetic markers, Genome-wide association studies (GWAS), Genomic selection and genomic breeding values

Textbook: "Genetics and Genomics of Domestic Animals" by R. D. S. Bainbridge



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

Bioprocess Engineering & Microbial Technology

UNIT I

Introduction to Bioprocess Engineering: Bioreactors and membrane Bioreactors and Membrane Bioreactors, Isolation Preservation and Maintenance of Industrial Microorganisms, Kinetics of microbial growth and death, Media and media sterilization for Industrial Fermentation, Air quality Management and Air sterilization, Types of fermentation processes. Analysis of batch, Fedbatch and continuous bioreactors, stability of microbial reactors, analysis of mixed microbial populations, specialized bioreactors (pulsed fluidized, photobioreactors etc). Fermentation kinetic and monitoring, Measurement and control of bioprocess parameters.

UNIT II

Downstream processing: Introduction, Removal of microbial cells and solid matter, foam separation, precipitation, filtration, centrifugation, cell disruptions, liquid-liquid extraction, chromatography, membrane process. Drying and crystallization, Effluent treatment D.O.C. and C.O.D. treatment and disposal of effluents. Whole cell Immobilization and their Industrial Applications, Immobilized enzymes in aqueous and non-aqueous media, bioconversion and Biotransformation. Industrial Production of chemicals: Alcohol (ethanol).

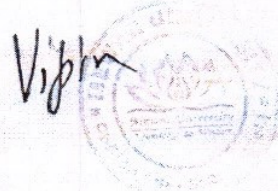
UNIT III

Acids (citric, acetic and gluconic), Solvents (glycerol, acetone, butanone), Antibiotics (penicillin, streptomycin, tetracycline), microlodes, anticancer antibiotic, Amino acids (lysine, glutamic acid), Single Cell Protein, single Cell Lipids. Use of microbes in mineral beneficiation and oil recovery. Introduction to Food technology elementary idea of canning and packin-Fat-Based Edible products, Sterilization and Pasteurization of food Products. Fast-based Nutraceuticals Technology of Typical Food/ food products (bread, cheese, idli, Agro-products (oilseeds) Food preservation, Food colors, Flavors, and Antioxidants. Introduction to Bioprocesses Technology, Hydrogenation, Oxidation, Esterification, Polymerization, Introduction of Microbial Biotechnology-Fine Chemicals (e.g. Biosurfactants, Spirulina, Yeast), oleo chemicals (Fatty acids, Glycerol, Methanol-petrochemicals-perfumery chemicals Drugs and pharmaceuticals.

UNIT IV

Biology of Industrial Microorganisms: (Saccharomyces, Aspergillus, penicillia, spore forming bacteria etc); Idea of Fermentation, Cell growth, Regulation of Metabolism, Substrate Assimilation/Product Secretion.; Different fermentative system; Batch and Continuous Process, Fermentor Design, Surface and submerged liquid substrate fermentation; Solid Substrate Fermentations, Fermentation raw materials, Downstream processing.

UNIT V



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE

Bio-mass production (alcohol, lactic acid, cheese making, bread making, soya based foods, meat fermentation, vinegar, industrial chemical, bio-polymer, bioinsecticides, food additive (amino acids, nucleosides, vitamins, fats and oils), health care products (antibiotics, steroids, vaccines), Production of Industrial solvents (alcohol, acetone, butanol etc.); Industrial Enzymes (amylase, proteases, lipases), concepts of immobilized enzymes.

Vipin



**MEWAR UNIVERSITY, GANGRAR, CHITTORGARH
DEPARTMENT OF LIFE SCIENCE**

Nanotechnology

UNIT I

Introduction to Nanoscience and Nanotechnology, Nanomaterials and Nanoparticles

UNIT II

Nanofabrication Techniques, Characterization of Nanomaterials, Nanobiotechnology and Bio nanotechnology

UNIT III

Nanomedicine and Drug Delivery Systems, Nanotoxicology and Safety Assessment

UNIT IV

Nanomaterials Synthesis and Characterization, Nanodevices and Sensors

UNIT V

Nano-bio-Interface and Applications, Nanotechnology in Agriculture and Food Science



OFFICE OF THE REGISTRAR

MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2019/2790-A

19th May 2019

OFFICE ORDER

Sub.: Reconstitution of Board of Studies for Department of Management

The Board of Studies for the Department of Management is reconstituted as per Rule 12 of the Statutes of Mewar University, as under:

- | | |
|--|-------------------|
| 1) Prof. (Dr.) S.P. Mathur, Dean, Faculty of Management and Commerce | - Chairman |
| 2) Prof. (Dr.) Hanuman Prasad, MLSU, Udaipur | - External Member |
| 3) Prof. (Dr.) Lalit Kumar Pipliwal, Janardhan Rao Nagar University, Udaipur | - External Member |
| 4) Mr. Raj Singh, Assistant Professor | - Internal Member |
| 5) Mr. Nishant Dubish, Assistant Professor | - Internal Member |
| 6) Mr. Rajnee, Asst. HR Manager, Laxmi Cement, Udaipur | - Alumni |
| 7) Mr. Rajesh Bhatt, Head & Assistant Professor | - Convener |

The terms of reference for the Board of Studies are as provided in Rule 12 of the Statutes.

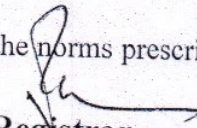
The Chairman of the Board of Studies may associate any member in the meeting, as special invitee if it is considered his association will contribute in the task of the meeting with the approval of the President/Vice Chancellor.

The Convener of the Meeting is advised to hold the meeting of the BOS seeking convenience of the Chairman in the second week of June 2019. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled for TA/DA and sitting fees as per the norms prescribed by the Mewar University.

Copy to:

- PS to Hon'ble Chairperson (for kind information)
- PS to Hon'ble President (for kind information)
- PS to Hon'ble Pro-President (for kind information)
- All concerned Deans/Directors/HoD's (for kind information & necessary action)
- Accounts/Examination/Library/Store/Warden/Security/IT Head.
- Coordinator, IQAC Cell.
- Record file.


Registrar
Registrar
Mewar University
Gangrar, (Chittorgarh)

MEWAR UNIVERSITY
DEPARTMENT OF MANAGEMENT
Minutes of the Board of Studies (BOS)

Minutes of the meeting of the Board of Studies in the Department of Management was held on Monday, June 13, 2019, At 11.00 A.M. In-room No 333. To approve the New/Changes in curriculum and syllabus revision for session 2019-20. At Mewar University, Gangrar, Chittorgarh- 312901.

CONTENTS

S. No.	Agenda
1.1	Grant of leave of absence member, if any
1.2	Welcoming the New Members
1.3	Minutes of the previous Meeting of the Board of Studies of the Department of Management, Mewar University
1.4	Follow-up actions on the Minutes of the previous meetings of the Board of Studies of the Department of Management, Mewar University
1.5	Propose to Agenda of BOS.
1.6	Resolved the Issue as per the Proposed Agenda
1.7	Any other item with the permission of the Chair.

Item 1.1 Grant of Leave of Absence, if any

All the members and one external member were present at the time of the Meeting, Therefore absentee was marked.

Item 1.2 Welcoming the New Members:

The Chairperson Prof. (Dr.) S.P. Mathur welcomed the Members for attending the meeting of the Board of Studies. The Chairperson further expressed special thanks to Dr. Lalit Kumar Pipliwal, Associate Professor, Faculty of Management Studies, Janardhan Rao Nagar Deemed to be University, Udaipur (Rajasthan), for sparing the time from their busy schedule to attend the meeting.

Dr. S.P. Mathur, Chairperson briefed the meeting in front of members of BOS. The list of members is mentioned in Annexure I.

Rajesh Bhatt, Asst. Professor & Head-Department of Management, formally welcomed all the members of the Board of Studies and thereafter the Agenda items are discussed and resolved as follows:

Item No.1.3: To confirm the minutes of the Meeting of BOS held on 25-08-2018, The Board considered and confirmed the minutes of its previous meeting held on 25th August 2018



Item No. 1.4: Follow-up actions on the Minutes of the previous meeting dated 25-08-2018

The Board members noted the action taken, where necessary, on the various decisions taken in its meeting held on 24-04-2017. The Board also expressed its satisfaction with the action taken report on the various decisions taken in its meeting held on 28th August 2018.

1.5 Propose to review course structure and syllabus for New Courses:

1. **ITEM NO. 1** To Approve the syllabus of the new course "Fundamental of Goods and Services Tax" in the BBA & BBA-MBA & recommend it to the Academic Council, Mewar University, Gangrar, Chittorgarh.
2. The BOS committee Members agreed to introduce one new course for BBA students in semester 4th from the upcoming session 2019-20. The courses are mentioned below.
(Annexure 2)
 - Profit Planning & Control
3. The BOS committee Members agreed to introduce two new courses for MBA students in the semester 4th from the upcoming session 2019-20. The courses are mentioned below.
(Annexure 3)
 - Banking Law & Practice
 - Advertising & Public Relations

1.7 Any other item with the permission of the Chair. There being no other matter, the meeting was concluded with a vote of thanks to the chair.

(Rajesh Bhatt)
HOD- Dept of Management



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH

Profit Planning & Control

Unit 1

Profit Management – Meaning, nature and concept, Kinds of profit theories of profit. Dynamic Surplus theory of profit, Risk and uncertainty theory, Monopoly theory Accounting profit and economic profit, role of profit, Profit policy, Profit limitation factor to set profit Standard.

Unit 2

Profit Planning and Control – Break even Analysis, Affects of cost change on B.E.P. Contribution Margin, Margin of safety. How to apply concept of Break even in Profit Management, P/V ratio Analysis, Standard Costing – Meaning, concept and nature, Advantages of standard costing, Limitations of standard costing. Procedure of cost control through standard costing, How to set standard, computation and Analysis.

Unit 3

Inventory Management, nature & concept of inventory control, Objective of inventory, objectives of inventory control barriers. Importance of Inventory control, factors affecting inventory control policy, Limitations. Reporting to management Reporting needs of different Management levels. Types of Reports, General Principles of Reporting, Report to the Board of Directors, Report to Top Management, Report to top divisional Management. Preparation of Reports, Reports to junior management level, use of Reports by management.

Reference:

Managerial Economics by P.L. Mehta

Financial Accounting and Management by R.K. Sharma & Shashi Kumar Gupta

Management Accounting by S.N. Maheshwari.



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH

Banking Law & Practice

Unit 1

Banking regulation Act 1949 – features, objectives, Evolution of banking, function of commercial banks, Indian banking system- commercial banks, RBI Industrial Banks, Exim Bank, NABARD, Co-operative Banks, Indigenous Banks, Scheduled & non – scheduled banks, regional rural banks, land Development banks, state bank of India – role & functioning.

RBI – functions, Management, Relationship with commercial banks, powers, regulation of commercial banks.

Defining banker, customers, general & special relationship of banker & customers, obligation to honor cheques garnishee order, obligation to maintain secrecy, Right of lien, Right to set off, Clayton's rule, Right to close about, power of attorney. Kinds of Accounts – C. A., F.D.A., S.B.A, R.D. – Procedures to open different kinds of Accounts, form used in operation, closure of accounts, Insurance of bank deposits, Nomination facility, NR accounts.

Unit 2

Types of Account Holders – Minor, lunatic, drunkard, insolvent, illiterate person, blind, married women, trustees, executors, administrations, Joint account holders, partnership firm, JHF, Joint stock company, Non Trading Institutions, Pass book – Statement of account, examining entries favorable to banker, entries favorable to customer, closing of accounts, demand draft, Services to customers – Mail Transfer, Telegraphic Transfer, Travelers cheque, safe deposit lockers & operations, Merchant banking, Teller system, credit cards, mutual funds.

Unit 3

Cheque –Meaning, feature, types-cheque, crossed cheque, general crossing, special crossing, account payees crossing, double crossing, Bankers liability, Payment of Cheques – precautions of payment, statutory protection of banker (paying), Dishonor of cheque, Wrongful dishonor & its liability collection of cheques, collecting bankers conversion, Duties & protection no collecting banker, Agent for collection, Marking of cheques.

Negotiable instruments – meaning, types, presentment, acceptance, Dishonor, compensation, payment of N.I. Discharge of parties, National alternation, Negotiation back, Payment in due course, international law, Rule of endorsement for different categories of customer.

Employment of bank funds – Types of securities, Modes of creating charge line, pledge, mortgage, hypothecation, identity, Guarantee, Purchase & discounting of bills, Letter of credit, Financing of Agriculture & Rural development, Documentation, Frauds mechanization in banks, Post Office saving banks.

Reference:

Banking Theory and Practice – Grewal and Taneja
Banking Law and Practice – Gupta C. B.
Banking Law and Practice – Shekhar & Shekhar



MEWAR UNIVERSITY, GANGRAR, CHITTORGARH

Advertising & Public Relations

Unit 1

Advertising Management – Introduction, facilitating institutions, planning framework – factors involved in advertising planning and decision making, the communication & persuasion process segmentation strategy.

Unit 2

The advertising Budget decision, Budgeting decision rules – percentage of sales, Affordable Approach, Competitor Parity approach, objective & Task method. Budgeting Process. Setting Advertising objectives- Sales as and objective, operational objectives, Behavioral objectives, dynamic, DAGMAR.

Unit 3

The source of message and social factors, Creation and Production of a copy, Types of television commercials, Public Relations – Meaning, Difference between advertising & Public Relations.

Reference:

Advertising Management – Chunawala

Advertising Management – Sontaki &
Sontaki

Advertising Theory & Practice – Batra, Aker, and Myres

