

# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

## DEPARTMENT OF SOCIOLOGY

DATE: 27/08/2021

### Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. Mohini Acharya (Chairman) Dean Faculty of Education & Sociology	Chairman	
2	Prof. Sushila Pareek, Member (External) Associate Professor, Department of Sociology, University of Rajasthan, Jaipur (Rajasthan)	External Member	
3	Prof. Santosh Meena, Member (External) Head, Department of Sociology, Banasthali University, Tonk (Rajasthan)	External Member	
4	Mr. Manoj Kumar Yadav, (Member) Assistant Professor, Department of Sociology,	Internal Member	
5	Dr. Durga prasad, (Member) Assistant Professor, Department of Sociology,	Internal Member	
6	Mr. Anurag Dadhich	Alumni	
7	Dr. Ravindra Kumar, (Convenor) Assistant Professor & Head	Convener	

**OFFICE OF THE REGISTRAR**  
**MEWAR UNIVERSITY, GANGRAR (CHITTORGARH) RAJASTHAN**  
Ref. No.: MU/RO/2021/871-A 25<sup>th</sup> June 2021

**OFFICE ORDER**

**Sub: Reconstitution of Board of Studies for Department of Physiotherapy**

The Board of Studies for the Department of Physiotherapy is reconstituted as per Rule 7 of Statutes of Mewar University , as under:

- |  |                              |
|--|------------------------------|
| 1) Mr. Dhvaj kirti Sharma (Dean Academics)                           | - Chairman                   |
| 2) Dr. Faiq Ahmad, Assistant Professor                               | - Internal Member            |
| 3) Dr. Deepak Sharma, (Principal, Udaipur Institute of Physiotherapy | - External Member            |
| 4) Dr. Saurbh Jain, (Asst. Professor, Pacific Medical College)       | - External Member            |
| 5) Dr. R.D Bhatt, Senior Physician Pal Hospital                      | - Hospital Member (External) |
| 6) Ms. Shanti Nath, Assistant Professor                              | - Internal Member            |
| 7) Dr. Yudhisthir.Panwar (Head & Assistant Professor)                | - Convener                   |

The terms of reference for the Board of Studies are as provided in Rule 7 of 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 be contribute in the task of the meeting, with the approval of President/ Vice-Chancellor.

The Convener of the Meeting is advised to hold the meeting of BOS seeking convenience of the Chairman on 1<sup>st</sup> Week of July 2021. 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 PHYSIOTHERAPY

DATE: 05<sup>th</sup> July 2021

### Minutes of Meeting of Board of Studies

Minutes of the BOS of the Department of Physiotherapy meeting held on 05-07-2021 at 11.30 AM in room no. 135.

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

- |  |                              |
|--|------------------------------|
| 1) Mr. Dhvaj kirti Sharma, Dean Academics                            | - Chairman                   |
| 2) Dr. Faiq Ahmad, Assistant Professor                               | - Internal Member            |
| 3) Dr. Deepak Sharma, (Principal, Udaipur Institute of Physiotherapy | - External Member            |
| 4) Dr. Saurbh Jain, (Asst. Professor, Pacific Medical College)       | - External Member            |
| 5) Dr. R.D Bhatt, Senior Physician P al Hospital                     | - Hospital Member (External) |
| 6) Ms. Shanti Nath, Assistant Professor                              | - Internal Member            |
| 7) Dr. Yudhisthir Panwar (Head & Assistant Professor)                | - Convener                   |

Dr. Yudhisthir Panwar (Head, Department of Physiotherapy) 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 12-05-2020

**Resolution:** Minutes of the previous BOS of the Physiotherapy Department held on 12-05-2020 were discussed and approved.

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

**Resolution:** Dr. Yudhisthir Panwar (Head of the Physiotherapy department) presented a departmental activity report mentioning all the activities conducted related to curricular development, research and development, faculty development and Industrial collaboration.

**Agenda 3:** Review of Existing Programmes/Courses

**Resolution:** The Committee reviewed the scheme and syllabus of BPT and approved it without any change for the session 2021-22.



**Agenda 4:** Introduction of New Programmes/Course

**Resolution:** As per suggestions received from the members of the BOS committee, a new programme MPT (Master of Physiotherapy) was introduced for the upcoming session 2021-22. The detailed syllabus and scheme are attached as **Annexure 2**.

**Agenda 4:** Any other suggestions by the BOS committee

**Resolution:** The BOS members suggested that the attainment of the Programme Outcome and Course outcome need to be pursued and may be taken up for discussion in its next meeting.

**Agenda 5:** 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.





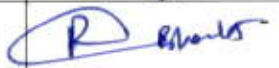

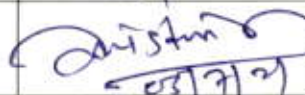


# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF PHYSIOTHERAPY

DATE: 05<sup>th</sup> July 2021

## Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Mr Dhwanj kirti Sharma Dean Academics	Chairman	
2	Dr. Deepak Sharma (Principal, Udaipur Institute of Physiotherapy)	External Member	 05/7/21
3	Dr. Saurbh Jain (Asst. Professor, Pacific Medical College)	External Member	
4	Dr. Faiq Ahmad (Head of Paramedical & Assistant Professor	Internal Member	
5	Dr. R.D Bhatt (Senior Physician Pal Hospital) -	Hospital Member (External)	
6	Ms. Shanti Nath Asst. Professor	Internal Member	 05/7/21
7	Dr. Yudhisthir Panwar (Head & Assistant Professor	Convener	 05/7/21

  
Suggestions by External Expert 1

  
Suggestions by External Expert 2

## Index of MPT Syllabus

### M.P.T 1<sup>st</sup> Year MPT IN ORTHOPEDECS

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN ORTHOPEDECS	MC-101	Basic Human Sciences	60	40	100	4	4
MPT		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
MPT		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
MPT		MC-104	Research Methodology with Evidence Based Practice	60	40	100	4	4
MPT		MC-105	Pedagogy And Management	60	40	100	4	4
MPT		MC-106	Skills acquisition and refinement		50	50	2	24
MPT		MC-107	Dissertation			50	2	4

### M.P.T 2nd Year MPT IN ORTHOPEDECS

MPT	MPT IN ORTHOPEDECS	MO-201	Musculoskeletal-I, II	60	40	100	4	4
MPT	MPT IN ORTHOPEDECS	MO-202	Women health, Geriatric & Hand Rehabilitation,	60	40	100	4	4
MPT		MO-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MO-204	Dissertation	150	50	200	8	4

### M.P.T 1<sup>st</sup> Year MPT IN NEUROLOGY

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN NEUROLOGY	MC-101	Basic Human Sciences	60	40	100	4	4
MPT		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
MPT		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
MPT		MC-104	Research Methodology with Evidence Based Practice	60	40	100	4	4
MPT		MC-105	Pedagogy And Management	60	40	100	4	4
MPT		MC-106	Skills acquisition and refinement		50	50	2	24
MPT		MC-107	Dissertation			50	2	4

### M.P.T 2nd Year MPT IN NEUROLOGY

MPT	MPT IN NEUROLOGY	MN-201	Neuroscience and Paediatric Biosciences	60	40	100	4	4
MPT	MPT IN NEUROLOGY	MN-202	Physiotherapy for spinal cord injury, Geriatric Rehabilitation, Advanced Neuro Physiotherapy	60	40	100	4	4
MPT		MN-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MN-204	Dissertation	150	50	200	8	4

### M.P.T 1<sup>st</sup> Year MPT IN CARDIO PULMONARY DISEASES

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN CARDIO PULMONARY DISEASES	MC-101	Basic Human Sciences	60	40	100	4	4
MPT		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
MPT		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
MPT		MC-104	Research Methodology with Evidence Based Practice & Biostatistics	60	40	100	4	4
MPT		MC-105	Pedagogy And Management	60	40	100	4	4
MPT		MC-106	Skills acquisition and refinement		50	50	2	24
MPT		MC-107	Dissertation			50	2	4

### M.P.T 2nd Year MPT IN CARDIO PULMONARY DISEASES

MPT	MPT IN CARDIO PULMONARY DISEASES	MCP-201	Cardio Respiratory Sciences and Rehabilitation	60	40	100	4	4
MPT	MPT IN CARDIO PULMONARY DISEASES	MCP-202	Acute Cardio Respiratory Practice, Fitness Training & Health Promotion	60	40	100	4	4
MPT		MCP-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MCP-204	Dissertation	150	50	200	8	4

### M.P.T 1<sup>st</sup> Year MPT IN SPORTS

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN SPORTS	MC-101	Basic Human Sciences	60	40	100	4	4
MPT		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
MPT		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
MPT		MC-104	Research Methodology with Evidence Based Practice	60	40	100	4	4
MPT		MC-105	Pedagogy And Management	60	40	100	4	4
MPT		MC-106	Skills acquisition and refinement		50	50	2	24
MPT		MC-107	Dissertation			50	2	4

### M.P.T 2nd Year MPT IN SPORTS

MPT	MPT IN SPORTS	MS-201	Physiotherapy for Upper & Lower Extremity	60	40	100	4	4
MPT	MPT IN SPORTS	MS-202	Advanced Sports Physiotherapy- Spine, Pelvis and Ex	60	40	100	4	4
MPT		MS-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MS-204	Dissertation	150	50	200	8	4



### M.P.T 1<sup>st</sup> Year MPT IN OBSTETRICS & GYNECOLOGY

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN OBSTETRICS & GYNECOLOGY	MC-101	Basic Human Sciences	60	40	100	4	4
MPT		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
MPT		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
MPT		MC-104	Research Methodology with Evidence Based Practice & Biostatistics	60	40	100	4	4
MPT		MC-105	Pedagogy And Management	60	40	100	4	4
MPT		MC-106	Skills acquisition and refinement		50	50	2	24
MPT		MC-107	Dissertation		50	50	2	4

### M.P.T 2nd Year MPT IN OBSTETRICS & GYNECOLOGY

MPT	MPT IN OBSTETRICS & GYNECOLOGY	MG-201	Gynecology- Medical-Surgical Conditions and Physiotherapy Management	60	40	100	4	4
MPT	MPT IN OBSTETRICS & GYNECOLOGY	MG-202	Obstetrics Clinical & Physiotherapy Management	60	40	100	4	4
MPT		MG-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MG-204	Dissertation	150	50	200	8	4

### M.P.T 1<sup>st</sup> Year MPT IN PEDIATRICS

Course	Specialisation	Sub.Code	Subjects	External	Int. Assessment	Grand Total	Credits	Teaching Hrs./Week
MPT	MPT IN PEDIATRICS	MC-101	Basic Human Sciences	60	40	100	4	4
		MC-102	Biomechanics & Kinesiology	60	40	100	4	4
		MC-103	Physical and Functional Diagnosis & Recent Advances in Physiotherapy	60	40	100	4	4
		MC-104	Research Methodology with Evidence Based Practice & Biostatistics	60	40	100	4	4
		MC-105	Pedagogy And Management	60	40	100	4	4
		MC-106	Skills acquisition and refinement		50	50	2	24
		MC-107	Dissertation		50	50	2	4

### M.P.T 2nd Year MPT IN PEDIATRICS

MPT	MPT IN PEDIATRICS	MP-201	Physiotherapy in Pediatric Neurological Conditions	60	40	100	4	4
MPT	MPT IN PEDIATRICS	MP-202	Advanced Clinical Paediatrics	60	40	100	4	4
MPT		MP-203	Skill enhancing (Practical)	200	100	300	12	24
MPT		MP-204	Dissertation	150	50	200	8	4

	S.NO	BRANCH	CODE
<b>ELECTIVES</b>	1	ORTHOPEDICS	MO
	2	NEUROLOGY	MN
	3	CARDIO PULMONARY DISEASES	MCP
	4	SPORTS	MS
	5	OBSTETRICS & GYNECOLOGY	MG
	6	PEDIATRICS	MP

*Om Jaiswal*



## OFFICE OF THE REGISTRAR

### MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

Ref. No.: MU/RO/2021/853

18<sup>th</sup> June 2021

### OFFICE ORDER

➤ **Sub.: Reconstitution of Board of Studies for Department of Computer Science & Engineering**

The Board of Studies for the Department of Computer Science & Engineering is reconstituted as per Rule 7 of the Statutes of Mewar University, as under:

- |   |                            |
|---|----------------------------|
| 1. Prof. (Dr.) Tanveer Ahmed Kazi, Professor & Dean                 | - Chairman                 |
| 2. Mr. Ankit Navlakha, Assistant Professor & Head                   | - Convener                 |
| 3. Dr. Avinash Panwar, Associate Professor, MLSU Udaipur            | - External Member          |
| 4. Mr. Hemant Kumar Sharma, Manager Datamatics, Subsidiary of L & T | - External Member Industry |
| 5. Dr. Azad Sivastava, Assistant Professor                          | - Internal Member-1        |
| 6. Mr. Shiv Kumar, Assistant Professor                              | - Internal Member-2        |
| 7. Mr. Anil Dangi, Assistant Professor                              | - Internal Member -3       |
| 8. Dr. Awanit Kumar, Sangam University, Bhilwara                    | - Alumni Member            |

The terms of reference for the Board of Studies are as provided in Rule 7 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 on the 19<sup>th</sup> July 2021. 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 COMPUTER SCIENCE & ENGINEERING

DATE: 19<sup>th</sup> July 2021

## Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Computer Science & Engineering is held on 19<sup>th</sup> July 2021 in Room No. 135 at 11:30 am onwards to approve the new/changes in curriculum and syllabus revision for session 2021-22.

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

- |   |                            |
|---|----------------------------|
| 1. Prof. (Dr.) Tanveer Ahmed Kazi, Professor & Dean                 | - Chairman                 |
| 2. Mr. Ankit Navlakha, Assistant Professor & Head                   | - Convener                 |
| 3. Dr. Avinash Panwar, Associate Professor, MLSU Udaipur            | - External Member          |
| 4. Mr. Hemant Kumar Sharma, Manager Datamatics, Subsidiary of L & T | - External Member Industry |
| 5. Dr. Azad Sivastava, Assistant Professor                          | - Internal Member-1        |
| 6. Mr. Shiv Kumar, Assistant Professor                              | - Internal Member-2        |
| 7. Mr. Anil Dangl, Assistant Professor                              | - Internal Member -3       |
| 8. Dr. Awanit Kumar, Sangam University, Bhilwara                    | - Alumni Member Mr.        |

Ankit Navlakha (Head of the Department of Computer Science & Engineering) 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 13-01-2021

**Resolution:** Minutes of the previous BOS of the Computer Science & Engineering department held on 13-01-2021 were discussed and approved.

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

**Resolution:** Mr. Ankit Navlakha (Head, Computer Science & Engineering) presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, faculty development and Industrial collaboration.

*19 July 2021*



**Agenda 3:** Revision of Existing Programmes/Courses

**Resolution:**The Committee reviewed the scheme and syllabus of the B. Tech (Computer Science & Engineering) from the upcoming session 2021-22. **(Annexure 2)**

**Agenda 4:** Introduction of New Programmes M. Tech. (Data Science)

**Resolution:** BOS Committee members suggested to adopt AICTE Curriculum and approved a new scheme and syllabus of B. Tech (Computer Science & Engineering) of the AICTE Curriculum from session 2021-22.**(Annexure 3)**

**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.

  
19 July 2021



# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

DATE: 19<sup>th</sup> July 2023

## Annexure 1: Attendance Sheet

SN	Name	Designation	Post	Signature
1	Prof. (Dr.) Tanveer Ahmed Kazi	Professor & Dean	Chairman	 19/07/23
2	Mr. Ankit Navlakha	Assistant Professor & Head	Internal Member -1	 19/07/23
3	Dr, Avinash Panwar	Associate Professor MLSU Udaipur	External Member	 19/07/23
4	Mr. Hemant Kumar Sharma	Manager Datamatics, Subsidiary of L & T	External Member Industry	 19/07/23
5	Dr. AzadSivastava	Professor	Internal Member-2	
6	Mr. Shiv Kumar	Assistant Professor	Internal Member-3	
7	Mr. AnkitNavlakha	Assistant Professor	Convener	 19/07/23
8	Dr. Awanit Kumar	Sangam University, Bhilwara	Alumni Member	 Awanit

MEWAR UNIVERSITY

REVISED SYLLABUS EFFECTIVE FROM 2021-22

COURSE: B.Tech BRANCH: Computer Science and Engineering

I SEMESTER

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	TA	End Term Part 1	End Term Part 2 / Viva-Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Basic Science course	BSC101	Physics	3	1	0	4	4	15	35	50	0	0	100
2		BSC102	Mathematics-I	3	1	0	4	4	15	35	50	0	0	100
3		BSC103	Chemistry	3	1	0	4	4	15	35	50	0	0	100
4		BSC104	Physics Lab	0	0	2	2	1	0	0	0	25	25	50
5		BSC105	Chemistry Lab	0	0	2	2	1	0	0	0	25	25	50
6	Engineering Science Courses	ESC101	Basic Electrical Engineering	3	1	0	4	4	15	35	50	0	0	100
7		ESC102	Engineering Graphics & Design Lab	0	0	4	4	2	0	0	0	50	50	100
8		ESC103	Basic Electrical Engineering Lab	0	0	2	2	1	0	0	0	25	25	50
<b>TOTAL</b>				<b>12</b>	<b>4</b>	<b>10</b>	<b>26</b>	<b>21</b>						<b>650</b>



**II SEMESTER**

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	TA	End Term Part I	End Term Part 2 / Viva- Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Basic Science	BSC106	Mathematics –II	3	1	0	4	4	15	35	50	0	0	100
2	Engineering Science Courses	ESC104	Programming for Problem Solving	3	1	0	4	4	15	35	50	0	0	100
3		ESC105	Engineering Mechanics	3	1	0	4	4	15	35	50	0	0	100
4		ESC106	Basic Electronics	3	1	0	4	4	15	35	50	0	0	100
5		ESC107	Programming for Problem Solving Lab	0	0	4	4	2	0	0	0	50	50	100
6	Humanities and Social Sciences including Mandatory courses	ESC108	Workshop Practices Lab	0	0	4	4	2	0	0	0	50	50	100
7		HSMC 101	English	2	0	0	2	2	10	15	25	0	0	50
8		HSMC 102	English Lab	0	0	2	2	1	0	0	0	25	25	50
9		MC-I	Environmental Science	2	0	0	2	0	0	0	0	0	0	0
<b>TOTAL</b>				<b>16</b>	<b>4</b>	<b>10</b>	<b>30</b>	<b>23</b>						<b>700</b>



**III SEMESTER**

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	IA	End Term Part I	End Term Part 2 / Viva-Voice	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Basic Science course	BSC107	Mathematics-III	3	1	0	4	4	15	35	50	0	0	100
2		BSC108	Biology for Engineers	2	0	0	2	2	10	15	25	0	0	50
3	Professional Core courses	PCC-CS301	Data Structure and Algorithms	3	1	0	4	4	15	35	50	0	0	100
4		PCC-CS302	Computer Organization and Architecture	3	1	0	4	4	15	35	50	0	0	100
5		PCC-CS303	Digital Electronic	3	1	0	4	4	15	35	50	0	0	100
6		PCC-CS304	Discrete Mathematics	3	1	0	4	4	15	35	50	0	0	100
7	Professional Core courses	PCC-CS305	Data Structure and Algorithms Lab	0	0	2	2	1	0	0	0	25	25	50
8		PCC-CS306	Digital Electronic Lab	0	0	2	2	1	0	0	0	25	25	50
9	Humanities and Social Sciences including Management courses	HSMC201	Organizational Behavior	3	0	0	3	3	10	25	40	0	0	75
10		PNC301	Python Programming	2	0	0	2	NC	10	15	25			NC
<b>TOTAL</b>				<b>22</b>	<b>5</b>	<b>4</b>	<b>31</b>	<b>27</b>						<b>725</b>



IV SEMESTER

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	TA	End Term Part 1	End Term Part 2 / Viva- Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Professional Core courses	PCC- CS 401	Object Oriented Programming	3	1	0	4	4	15	35	50	0	0	100
2		PCC- CS 402	Operating Systems	3	1	0	4	4	15	35	50	0	0	100
3		PCC- CS 403	Design and Analysis of Algorithms	3	1	0	4	4	15	35	50	0	0	100
4		PCC- CS 404	Web Design and Applications	3	1	0	4	4	15	35	50	0	0	100
5		PCC- CS 405	Computer Network	3	1	0	4	4	15	35	50	0	0	100
6		PCC- CS 406	Object Oriented Programming Lab	0	0	2	2	1	0	0	0	25	25	50
7		PCC- CS 407	Design and Analysis of Algorithms Lab	0	0	4	4	2	0	0	0	50	50	100
8		PCC- CS 408	Web Design and Applications Lab	0	0	2	2	1	0	0	0	25	25	50
9	Humanities and Social Sciences including Management	H-102	Universal Human Values 2: Understanding Harmony	3	0	0	3	3	10	25	40	0	0	75
10		PNCS401	Computer System Security	2	0	0	2	NC	10	15	25			NC
<b>TOTAL</b>				<b>18</b>	<b>5</b>	<b>8</b>	<b>31</b>	<b>27</b>						<b>775</b>



V SEMESTER

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	TA	End Term Part 1	End Term Part 2 / Viva- Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Professional Core courses	PCC- CS 501	Database Management Systems	3	1	0	4	4	15	35	50	0	0	100
2		PCC CS 502	Automata Theory	4	0	0	4	4	15	35	50	0	0	100
3		PCC CS503	Java Programming	3	1	0	4	4	15	35	50	0	0	100
4	Professional Elective courses	PEC CSEL504- 508	Elective-I	3	0	0	3	3	10	25	40	0	0	75
5		PEC CSEL 509- 513	Elective-II	3	0	0	3	3	10	25	40	0	0	75
6	Professional Core courses	PCC CS 514	Database Management Systems Lab	0	0	2	2	1	0	0	0	25	25	50
7		PCC CS 515	Java Programming Lab	0	0	2	2	1	0	0	0	25	25	50
8	Humanities and Social Sciences including Management courses	HSMC301 (OEL II)	Humanities I (Effective Technical Communication)	2	0	0	2	2	10	15	25	0	0	50
9	Project (Summer internship)	PROJ- CS 301	Minor Project/ Seminar/Summer Internship	0	0	2	2	1	0	0	0	25	25	50
<b>TOTAL</b>				<b>18</b>	<b>2</b>	<b>6</b>	<b>26</b>	<b>23</b>						<b>650</b>





**VI SEMESTER**

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	TA	End Term Part I	End Term Part 2 / Viva-Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Professional Core courses	PCC-CS 601	Compiler Design	3	0	0	3	3	10	25	40	0	0	75
		PCC-CS 602	Software Engineering	0	0	2	2	1	0	0	0	25	25	50
2	Professional Elective courses	PEC CSEL603- 607	Elective-III	3	0	0	3	3	10	25	40	0	0	75
3		PEC CSEL608- 612	Elective-IV	3	0	0	3	3	10	25	40	0	0	75
4	Open Elective courses	OEC 601- 605	Open Elective-I	3	0	0	3	3	10	25	40	0	0	75
5	Professional Core courses	PCC CS 613	Compiler Design Lab	0	0	2	2	1	0	0	0	25	25	50
6		PCC CS 614	Software Engineering Lab	0	0	2	2	1	0	0	0	25	25	50
7	Mandatory courses	MC-II	Essence of Indian Knowledge Tradition	2	0	0	2	0	0	0	0	0	0	0
8	Project	PROJ-CS 601	Project-II( Major Project)	0	0	10	10	5	0	0	0	125	125	250
<b>TOTAL</b>				<b>14</b>	<b>0</b>	<b>16</b>	<b>30</b>	<b>20</b>						<b>700</b>



VII SEMESTER

S.N o.	Category	Course Code	Course Title	Contact hours per Week.			Total contact hours	Credits	TA	End Term Part 1	End Term Part 2 / Viva-Voce	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Professional Elective courses	PEC CSEL701- 705	Elective-V	3	0	0	3	3	10	25	40	0	0	75
2		PEC CSEL706- 710	Elective-VI	3	0	0	3	3	10	25	40	0	0	75
3	Open Elective courses	OEC-701- 705	Open Elective II	3	0	0	3	3	10	25	40	0	0	75
4		OEC-706- 710	Open Elective III	3	0	0	3	3	10	25	40	0	0	75
5	Mandatory courses	MC-III	Constitution of India	2	0	0	2	0	0	0	0	0	0	0
6	Project (Or Summer internship)	PROJ CS 701	Short Term Training (21-45 Days) Project-III	0	0	6	6	3	0	0	0	0	150	150
<b>TOTAL</b>														<b>450</b>



VIII SEMESTER

S.N o.	Category	Course Code	Course Title	Contact hours per Week			Total contact hours	Credits	Project Report	Internal Evaluation	Industry Evaluation	Internal Practical	End Term Practical	Total Marks
				L	T	P								
1	Project	PROJ-CS 801	Industrial Internship/Project-IV	0	0	20	20	10	100	300	0	0	500	
<b>TOTAL</b>				<b>0</b>	<b>0</b>	<b>20</b>		<b>10</b>					<b>500</b>	
							<b>166</b>						<b>5150</b>	

<p><b>ELECTIVE 1 (PEC CSEL. 504-508)</b></p> <ul style="list-style-type: none"> <li>• Cloud Computing</li> <li>• Advanced Computer Architecture</li> <li>• Data Mining</li> <li>• Mobile Computing</li> <li>• Block Chain Technology</li> </ul>	<p><b>ELECTIVE 4 (PEC CSEL 608-612)</b></p> <ul style="list-style-type: none"> <li>• AI and Robotics</li> <li>• Computer Vision</li> <li>• Introduction to ML</li> <li>• Introduction to Data Science</li> <li>• Big Data</li> </ul>	<p><b>OPEN ELECTIVE 1 (OEC 601-605)</b></p> <ul style="list-style-type: none"> <li>• Digital Signal Processing</li> <li>• Computer Based Numerical Technique</li> <li>• Disaster management</li> <li>• Distributed System</li> <li>• Natural Language Processing</li> </ul>
<p><b>ELECTIVE 2 (PEC CSEL. 509-513)</b></p> <ul style="list-style-type: none"> <li>• Internet of Things</li> <li>• Multimedia Technology</li> <li>• Pattern Reorganization</li> <li>• Information Retrieval</li> <li>• Software Testing</li> </ul>	<p><b>ELECTIVE 5 (PEC CSEL. 701-705)</b></p> <ul style="list-style-type: none"> <li>• Computer Network Security and Cryptography</li> <li>• Software Project Management</li> <li>• Bioinformatics</li> <li>• Script Programming</li> <li>• Data Analysis</li> </ul>	<p><b>OPEN ELECTIVE 2 (OEC- 701-705)</b></p> <ul style="list-style-type: none"> <li>• Remote Sensing and GIS</li> <li>• Human Values in Madhyasth Darshan</li> <li>• Digital Marketing</li> <li>• Value Relationship &amp; Ethical Human Conduct- For A Happy &amp; Harmonious Society</li> <li>• Real Time System</li> </ul>
<p><b>ELECTIVE 3 (PEC CSEL 603-607)</b></p> <ul style="list-style-type: none"> <li>• Computer Graphics &amp; Image Processing</li> <li>• Software Architecture</li> <li>• Soft Computing</li> <li>• Game Theory</li> <li>• Deep Learning</li> </ul>	<p><b>ELECTIVE 6 (PEC CSEL. 706-710)</b></p> <ul style="list-style-type: none"> <li>• Fuzzy Set theory and Its Application</li> <li>• Human Computer Interface</li> <li>• Combinational Optimization</li> <li>• VLSI Design and Algorithm</li> <li>• Augmented and Virtual Reality</li> </ul>	<p><b>OPEN ELECTIVE 3 (OEC- 706-710)</b></p> <ul style="list-style-type: none"> <li>• Numerical Analysis And Optimization Technique</li> <li>• Digital and Social Media Marketing</li> <li>• Operation Research</li> <li>• Embedded System</li> <li>• Full Stack Technology</li> </ul>



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

Ref. No.: MU/RO/2021/860-A

21-06-2021

**OFFICE ORDER**

**Sub.: Reconstitution of Board of Studies for Department of Pharmacy**

The Board of Studies for the Department of Department of Pharmacy is reconstituted as per Rule 7 of the Statutes of Mewar University, as under:

1) Dr. Kaushal Kishor Chandrul, Professor & Dean	Chairman
2) Dr. Rajesh Verma, Professor, Apex University, Jaipur	External Member 1
3) Dr. Vinesh Chaudhary, Professor, LBS College of Pharmacy, Jaipur	External Member 2
4) Roselyn Khaklary, Pharmacist	Alumni
5) Mr. Amit Khandelwal, Elocon Pharmaceutical Pvt Ltd, Jaipur	Member from Industry
6) Ms. Sarita Sharma, Assistant Professor	Internal Member 1
7) Ms. Ankita Sharma, Assistant Professor	Internal Member 2
8) Mr Mr Pankaj Chasta, Assistant Professor.	Internal Member 2
9) Dr. Gaurav Kumar Sharma, Associate Professor & HOD	Convener

The terms of reference for the Board of Studies are as provided in Rule 7 or 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 third week of June 2021. 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/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 PHARMACY

DATE: 21-06-2021

## Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Pharmacy, Faculty of Medical, Surgical and Paramedical was held on 21st June 2021 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2021-22. The following members were present: (**Annexure 1**)

- |   |                      |
|---|----------------------|
| 1) Dr. Kaushal Kishor Chandrul, Professor & Dean                    | Chairman             |
| 2) Dr. Rajesh Verma, Professor, Apex University, Jaipur             | External Member 1    |
| 3) Dr. Vinesh Chaudhary, Professor, LBS College of Pharmacy, Jaipur | External Member 2    |
| 4) Roselyn Khaklary, Pharmacist                                     | Alumni               |
| 5) Mr. Amit Khandelwal, Elocon Pharmaceutical Pvt Ltd, Jaipur       | Member from Industry |
| 6) Ms. Sarita Sharma, Assistant Professor                           | Internal Member 1    |
| 7) Ms. Ankita Sharma, Assistant Professor                           | Internal Member 2    |
| 8) Mr Mr Pankaj Chasta, Assistant Professor.                        | Internal Member 2    |
| 9) Dr. Gaurav Kumar Sharma, Associate Professor & HOD               | Convener             |

**Agenda 1:** Welcoming the New Members

**Resolution:** Mr. Gaurav Kumar Sharma, Head of the Department of Pharmacy, 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 Pharmacy, Mewar University

**Resolution:** Minutes of the previous BOS of the Pharmacy Department held on 18-06-2020 were discussed and approved.

**Agenda 3:** To introduce a new programme/course for the upcoming session

**Resolution:** Department of Pharmacy offers the professional courses for Employability/Entrepreneurship/Skills in D. Pharma and B. Pharma consisting the various subjects. M. Pharma (Pharmaceutical Quality Assurance) has started by the Department of Pharmacy. (**Annexure-2**)

PRINCIPAL  
Department of Pharmacy  
Mewar University  
Gangrar, Chittorgarh

The main objectives of the Employability/ Entrepreneurship/ Skill Development Course are:

- To promote professional practice management skills in hospital and pharmaceutical industries (quality control and quality assurance).
- To promote entrepreneurship and abilities to manage the independent drug store/pharmacy.
- To groom in a manner that they can do patient counseling and able to supply quality medicines to patients.
- To prepare the students/learners to be good professionals in the pharmaceutical industry.

**Agenda 4:** Introduce the value-added courses

**Resolution:** Department of Pharmacy offers Training / Internships which are conducted every year. These sessions are conducted by experts and help students stand apart from the rest in the job market by adding further value to their resumes. They are mostly independent of each type of field. (Annexure 3)

S.No.	Name of the value-added courses/ Internships	Course Code	Year of offering	Duration of course/ Internships
1.	B. Pharm – Short-term training	BP	2020-21	01 Months
2.	D. Pharm - Short-term training	DPH	2020-21	03 Months

**The main objectives of the Value Added Course are:**

- To provide students with an understanding of the expectations of industry.
- To improve the employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity for students to develop interdisciplinary skills.
- To mold students as job providers rather than job seekers.

**Guidelines for conducting value-added courses/Internship:-**

These training/internships are conducted in collaboration with well-known pharmaceutical industries like Oniosome, CTSD (Center for Training & skill development), Mohali, and Royal Research Centre Gujarat.

The B. Pharma and D. Pharma students will be sent to this internship at the end of the final semesters.

PRINCIPAL  
Department of Pharmacy  
Mewar University  
Gangrar, Chittorgarh

**Duration:-**

The duration of training/internship is 1 month/150 hours for B. Pharma in the pharmaceutical industry and 3 months/500 hours in the hospital as per mentioned by the Pharmacy Council of India (PCI).

**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 concluded with a gentle thank you by the Chairperson Prof. (Dr.) Kaushal Kishor Chandrul, Department of Pharmacy.


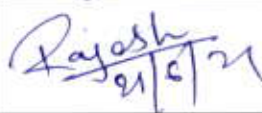


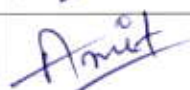




  
**PRINCIPAL**  
Department of Pharmacy  
Mewar University  
Gangrar, Chittorgarh

# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF PHARMACY

DATE: 21-06-2021

## Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dr. Kaushal Kishor Chandrul, Professor & Dean	Chairman	
2	Dr. Rajesh Verma, Professor, Apex University, Jaipur	External Member 1	
3	Dr. Vinesh Chaudhary, Professor, LBS College of Pharmacy, Jaipur	External Member 2	
4	Roselyn Khaklary, Pharmacist	Alumni	
5	Mr. Amit Khandelwal, Elocon Pharmaceutical Pvt Ltd, Jaipur	Member from Industry	
6	Ms. Sarita Sharma, Assistant Professor	Internal Member 1	
7	Ms. Ankita Sharma, Assistant Professor	Internal Member 2	
8	Mr Mr Pankaj Chasta, Assistant Professor.	Internal Member 3	
9	Dr. Gaurav Kumar Sharma, Associate Professor & HOD	Convener	

  
PRINCIPAL  
Department of Pharmacy  
Mewar University  
Gangrar, Chittorgarh



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

Ref. No.: MU/RO/2021/544-A

16<sup>th</sup> October 2021

**OFFICE ORDER**

**Sub.: Reconstitution of Board of Studies for Department of Law**

The Board of Studies for the Department of Law is reconstituted as per Rule 7 of the Statutes of Mewar University, as under:

- |  |                   |
|--|-------------------|
| 1) Prof. (Dr.) P.S. Varshney, Dean, Faculty of Legal Studies                       | - Chairman        |
| 2) Dr. Dev Swarup, Vice Chancellor, Dr. Bhim Rao Ambedkar University, Jaipur, Raj. | - External member |
| 3) Dr. D.K. Sharma, Member, BCI, Nainital, Uttarakhand                             | - External Member |
| 4) Dr. D.D Kaushik, Ex. Vice Chancellor, New Delhi                                 | - External Member |
| 5) Ms. Lavina Chaplot, Assistant Professor, Law                                    | - Internal Member |
| 6) Mr. Shirish Shukla, Assistant Professor, Law                                    | - Internal Member |
| 7) Mr. Amit Dadhich, Assistant Professor, Law                                      | - Internal Member |
| 8) Mr. Amit Kumar Sharma, Assistant Professor & Head                               | - Convener        |

The terms of reference for the Board of Studies are as provided in Rule 7 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 October 2021. The proceedings of the meeting may be sent to the VC/Registrar as early as possible.

The External Members shall be entitled to T/DA and sitting fees as per the norms prescribed by 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/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 LAW

DATE: 25<sup>th</sup> October 2021

## Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of Law was held on 25<sup>th</sup> October 2021 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and syllabus revision for session 2021-22.

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

- 1) Prof. (Dr.) P.S. Varshney, Dean, Faculty of Legal Studies - Chairman
- 2) Dr. Dev Swarup, Vice Chancellor, Dr. Bhim Rao Ambedkar University, Jaipur, Raj. - External member
- 3) Dr. D.K. Sharma, Member, BCI, Nainital, Uttarakhand - External Member
- 4) Dr. D.D Kaushik, Ex. Vice Chancellor, New Delhi - External Member
- 5) Ms. Lavina Chaplot, Assistant Professor, Law - Internal Member
- 6) Mr. Shirish Shukla, Assistant Professor, Law - Internal Member
- 7) Mr. Amit Dadhich, Assistant Professor, Law - Internal Member
- 8) Mr. Amit Kumar Sharma, Assistant Professor & Head - Convener

At the outset, Mr. Amit Kumar Sharma (Head, Department of Legal Studies) 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 05-06-2020

**Resolution:** Minutes of the previous BOS of the Law department held on 05-06-2020 were discussed and approved.

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

**Resolution:** Mr. Amit Kumar Sharma (Head, Department of Law) presented departmental proposed activity that should be conducted related to curricular development, research development, and faculty development of Law.

**Agenda 3:** Review and approval of Existing Programmes/Courses

**Resolution:** Mr. Amit Kumar Sharma (Head, Department of Law) presented the ongoing syllabus of B.A.LL.B (Hons.), BBA LL.B (Hons.), LL.B and LL.M. The BOS committee reviewed and approved the scheme and syllabus in the upcoming session 2021-22 (**Annexure 2**)



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

**Resolution:** Members of the Board of Studies approved the reviewed 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.






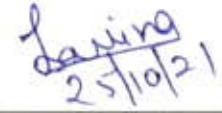
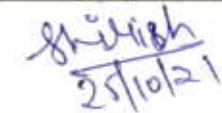
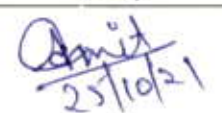
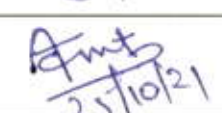
# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF LAW

DATE: 25<sup>th</sup> October 2021

## Annexure 1: Attendance Sheet

Following members were present in the Board of Studies meeting:

S.NO.	NAME OF MEMBERS		SIGNATURE
1.	Prof. (Dr.) P.S VARSHNEY	CHAIRMAN	 25/10/21
2.	Dr. D.K. Sharma, Member, BCI, Nainital, Uttarakhand	External member	 25/10/21
3.	Dr. D.D. Kaushik, Ex. Vice Chancellor, New Delhi	External member	 25/10/21
4.	Dr. Dev Swarup, Vice Chancellor, Dr. Bhim Rao Ambedkar Law University, Jaipur, Rajasthan	External member	Couldnot attend
5.	Ms. LavinaChaplot Assistant Professor	MEMBER	 25/10/21
6.	Mr. SHIRISH KUMAR SHUKLA Assistant Professor	MEMBER	 25/10/21
7.	Mr. Amit Dadhich Assistant Professor	MEMBER	 25/10/21
8.	Mr. Amit Kumar Sharma Assistant Professor	CONVENER	 25/10/21

## Annexure 1: Attendance Sheet

Prof. (Dr.) P.S. VARSHNEY

Chairman

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

Ref. No.: MU/RO/2021/ 767 -

17<sup>th</sup> May 2021

**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 7 of the Statutes of Mewar University, as under:

- |   |                   |
|---|-------------------|
| 1) Dr. Rekha Sharma, Dean, Faculty of Management and Commerce                                     | - Chairman        |
| 2) Prof. (Dr.) Abhay Jaroli, Head, Department of Commerce, B.N. PG MLSU, Udaipur                  | - External Member |
| 3) Prof. ( Dr.) P K Khicha, Head, Department of Commerce, Govt. College, Rajsamand, MLSU, Udaipur | - External Member |
| 4) Mr. Vikram Singh Rao, Assistant Professor  | - Internal Member |
| 5) Mr. Shailesh Kansal, Assistant Professor   | - Internal Member |
| 6) Mr. Raj Singh, Assistant Professor   | - Internal Member |
| 7) Mr. Rishabh Meratiya   | - Alumni          |
| 8) Dr. Chetali Agarwal, Head and Assistant Professor  | - Convener        |

The terms of reference for the Board of Studies are as provided in Rule 7 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 May 2021. 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**  
**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 COMMERCE

DATE: 22.05.2021

## Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Commerce was held on 22<sup>nd</sup> May 2021 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2021-22. The following members were present: **(Annexure 1)**

- 1) Dr. Rekha Sharma, Dean, Faculty of Management and Commerce - Chairman
- 2) Prof. ( Dr.) Abhay Jaroli, Head, Department of Commerce, B.N. PG MLSU, Udaipur  
- External Member
- 3) Prof. ( Dr.) P K Khicha, Head, Department of Commerce, Govt. College, Rajsamand, MLSU, Udaipur  
- External Member
- 4) Mr. Vikram Singh Rao, Assistant Professor - Internal Member
- 5) Mr. Shailesh Kansal, Assistant Professor - Internal Member
- 6) Mr. Raj Singh, Assistant Professor - Internal Member
- 7) Mr. Rishabh Meratiya - Alumni
- 8) 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 22-07-2019 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 and M.Com.

**Agenda 5:** Introduction of New Programme/Course

**Resolution:** As per the recommendation of the previous BOS committee members, it is decided to introduce one new course for the B.Com students for the upcoming session 2021-22. The course syllabus is enclosed here. **(Annexure 2)**

- Manpower Management

**Agenda 6:** Any other suggestions by BOS Committee

**Resolution:**

- To make the course more relevant and do necessary changes and up gradation of all the courses/training programmes proposed by the academic members of the BOS.
- In addition, BOS will also explore the possibility of conducting new courses according to the requirement of the corporate world.
- There should be more focus on digital marketing.

**Agenda 7:** 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.

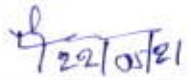


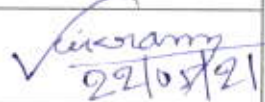


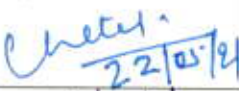
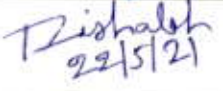


# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF COMMERCE

DATE: 22.05.2021

## Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dr. Rekha Sharma, Dean, Faculty of Management and Commerce	Chairman	 22/05/21
2	Prof. (Dr.) Abhay Jaroli, Head, Department of Commerce, B.N. PG MLSU, Udaipur	External Member	 22/05/21
3	Prof. (Dr.) P K Khicha, Head, Department of Commerce, Govt. College, Rajsamand, MLSU, Udaipur	External Member	 22-5-2021
4	Mr. Vikram Singh Rao, Assistant Professor	Internal Member	 22/05/21
5	Mr. Shailesh Kansal, Assistant Professor	Internal Member	 22/05/21
6	Mr. Raj Singh, Assistant Professor	Internal Member	 22/5/21
7	Dr. Chetali Agrawal, Head and Associate Professor	Convener	 22/05/21
8	Mr. Rishabh Meratiya	Alumni	 22/5/21



# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH

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## MANPOWER MANAGEMENT

### Unit 1-

Introduction – Manpower Management – Objectives, present status in Indian industry, Proactive Vs Reactive approach, Role of personnel executives in Indian Organisations. Recruitment Selection – Manpower Planning recruitment & selection process, Different types of tests. Training & Development – meaning & types of programs.

### Unit 2-

Performance Appraisal – Definitions, standards, measure, methods (P.A. Techniques) Process of job evaluation. Compensation Management. Fringe benefits, incentives objectives of wage & salary administration.

### Unit 3-

Job Satisfaction & Quality of work life – Job satisfaction – Meaning, factors governing impact of job/satisfaction. Over performance. QWL – meaning, approaches, Quality circle, Team building.

### **Reference:**

Personnel Management – Tripathi P. C.  
Industrial Relations – Tripathi P. C.  
Industrial Law by R.C. Chawla



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

Ref. No.: MU/RO/2021/ 772

20<sup>th</sup> May 2021

**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 7 of the Statutes of Mewar University, as under:

- |  |                   |
|--|-------------------|
| 1. Dr. Aruna Dubey, Dean, Faculty of Education & Psychology                          | - 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, Department of Physical Education & Sports                  | - Convener        |

The terms of reference for the Board of Studies are as provided in Rule 7 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 June 2021. 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: 25.06.2021

## Minutes of Meeting of Board of Studies

The Board of Studies meeting of the Department of Physical Education and Sports was held on 25<sup>th</sup> June 2021 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2021-22.

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

1. Dr. Aruna Dubey, Dean, Faculty of Education & Psychology - 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, Department of Physical Education & Sports - 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 02-07-2019

**Resolution:** Minutes of the previous BOS of the Physical Education & Sports department held on 02-07-2019 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, Department of Physical Education & Sports) presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, faculty development and Industrial collaboration.

**Agenda 3:** Introduction of New Programmes/ Course



**Resolution:** Based on the suggestion received from the member of previous BOS committee, it is decided to offer a new program “Bachelor of Physical Education” for the upcoming session 2021–2022. **The** detailed syllabus and scheme are enclosed here as **(Annexure 2)**

- Bachelor of Physical Education (B.P.Ed)

**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.



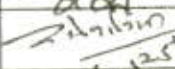



# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

DATE: 25.06.2021

## Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dr. Aruna Dubey, Dean, Faculty of Education & Psychology	Chairman	 25/06/2021
2	Prof. (Dr.) Ankit Shukla, Professor, University of D.A.V.V. Indore (M.P.)	External Member	Ankit 25/06/2021
3	Dr. Shantilal Bamta, Sports Officer, Shaheed Narendra Singh College, Jaora (M.P.)	External Member	 25/06/2021
4	Mr. Rakesh Giri, Assistant Professor	Internal Member	 25/06/2021
5	Dr. Pooja Gupta, Head & Associate Professor	Convener	 25.6.2021

  
25.06.2021



## GUIDELINES OF REGULATIONS AND MODEL SYLLABUS STRUCTURE FOR B. P. ED. TWO YEARS PROGRAMME (FOUR SEMESTERS)(CBCS)

*(If the University or affiliating body is following choice based credit system, (CBCS) as approved and Circulated by the UGC, the credit hours given in the following curriculum framework need to be considered along with the hours of teaching mentioned for each paper/ activity / course)*

*(If the University or affiliating body is yet to adopt CBCS, only the hours of teaching mentioned for each paper/ activity / course will be considered, the credit in teaching hours may be ignored)*

**Preamble:** Bachelor of Physical Education (B. P. Ed.) two years (Four Semesters Choice Based Credit System) programme is a professional programme meant for preparing teachers of physical education in classes VI to X and for conducting physical education and sports activities in classes XI and XII.

B. P. Ed. programme shall be designed to integrate the study of childhood, social context of Physical Education, subject knowledge, pedagogical knowledge, aim of Physical Education and communication skills. The programme comprises of compulsory and optional theory as well as practical courses and compulsory school internship.

### R.B.P.Ed. 1. Eligibility

Intake, Eligibility and Admission Procedure as per the NCTE norms and standards

### R. B.P.Ed. 2. Duration:

The B.P.Ed programme shall be of a duration of two academic years, that is, four semesters. However, the students shall be permitted to complete the programme requirements within a maximum of three years from the date of admission to the programme.

### R. B.P.Ed. 3. The CBCS System:

All Programmes shall run on Choice Based Credit System (CBCS). It is an instructional package developed to suit the needs of students, to keep pace with the developments in higher education and the quality assurance expected of it in the light of liberalization and globalization in higher education.



  
Dr. Shantilal Bamta



**R. B.P.Ed 4. Course:**

The term course usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise Lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

**R. B.P.Ed. 5. Courses of Programme:**

The B.P.Ed. Programme consists of a number of courses, the term 'Course' applied to indicate a logical part of subject matter of the programme and is invariably equivalent to the subject matter of a "paper" in the conventional sense. The following are the various categories of courses suggested for the B.P.Ed. Programme.

**Theory:****Core Course:****Elective Course:****Practicum:****Teaching Practices:****R. B.P.Ed.6. Semesters:**

An academic year is divided into two semesters. Each semester will consist of 17-20 weeks of academic work equivalent to 100 actual teaching days. The odd semester may be scheduled from May/June to November/December and even semester from November / December to May/June. The institution shall work for a minimum of 36 working hours in a week (five or six days a week).

**R. B.P.Ed.7. Working days:**

There shall be at least 200 working days per year exclusive of admission and examination processes etc.

**R. B.P.Ed 8. Credits:**

The term 'Credit' refers to a unit by which the programme is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or one and half / two hours of practical work/field work per week. The term 'Credit' refers to the weight given to a course, usually in relation to the instructional hours assigned to it. The total minimum credits, required for completing a B.P.Ed. Programme is 90 credits and for each semester 20 credits.



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 Dr. Shantikul Bamte  
*[Handwritten Signature]*

**Provision of Bonus Credits Maximum 06 Credits in each Semester**

Sr. No.	Special Credits for Extra Co-curricular Activities	Credit
1	Sports Achievement at Stale level Competition (Medal Winner) Sports Achievement National level Competition (Medal Winner) Sports participation International level Competition	1 2 4
2	Inter Uni. Participation (Any one game)	2
3	Inter College Participation (min. two game)	1
4	National Cadet Corps / National Service Scheme	2
5	Blood donation / Cleanliness drive / Community services /	2
6	Mountaineering – Basic Camp, Advance Camp / Adventure Activities	2
7	Organization / Officiating – State / National level in any two game	2
8	News Reposting / Article Writing / book writing / progress report writing	1
9	Research Project	4

Students can earn maximum 06 Bonus credits in each semester by his/her participation in the above mentioned activities duly certified by the Head of the institution / Department. This Bonus credit will be used only to compensate loss of credits in academic activities.

**R. B.P.Ed. 9. Examinations:**

- There shall be examinations at the end of each semester, for first semester in the month of November /December: for second semester in the month of May / June. A candidate who does not pass the examination in any course(s) shall be permitted to appear in such failed course(s) in the subsequent examinations to be held in November /December or May / June.
- A candidate should get enrolled /registered for the first semester examination. If enrollment/registration is not possible owing to shortage of attendance beyond condonation limit / rules prescribed OR belated joining OR on medical grounds, such candidates are not permitted to proceed to the next semester. Such candidates shall redo the semester in the subsequent term of that semester as a regular student; however, a student of first semester shall be admitted in the second semester, if he/she has successfully kept the term in first semester.

**R. B.P.Ed 10 Condonation:**

Student must have 75% of attendance in each course for appearing the examination. Students who have 74% to 65% of attendance shall apply for condonation in the prescribed form with the prescribed fee. Students who have 64% to 50% of attendance shall apply for



*[Signature]*  
Dr. Shantilal Banta



condonation in prescribed form with the prescribed fee along with the Medical Certificate. Students who have below 50% of attendance are not eligible to appear for the examination.

### R. B.P.Ed 11. Pattern of Question Papers:

Question Papers shall have five questions corresponding to four units of each theory course.

#### B.P.Ed.: Format of Question Paper for 4 Units.

Each question paper shall have five questions. The pattern will be as follows:

Question No.	Description	Marks
1	Answer in detail (Long Question) Or Answer in detail (Long Question) (Form Unit 1)	15
2	Answer in detail (Long Question) Or Answer in detail (Long Question) (Form Unit 2)	15
3	Answer in detail (Long Question) Or Answer in detail (Long Question) (Form Unit 3)	15
4	Write short notes: any two out of four (Form Unit 4)	15
5	M.C.Q. Type Questions (10 out of 12 Que.) (3 Questions. from each unit)	10
<b>Total</b>		<b>70</b>

### R. B.P.Ed. 12. Evaluation:

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

One Test	15 Marks
Seminar / Quiz	5 Marks
Assignments	5 Marks
Attendance	5 Marks
Total	30 Marks



*Dr. Shantilal Banta*

Attendance shall be taken as a component of continuous assessment, although the students should have minimum 75% attendance in each course. In addition to continuous evaluation component, the end semester examination, which will be written type examination of at least 3 hours duration, would also form an integral component of the evaluation. The ratio of marks to be allotted to continuous internal assessment and to end semester examination is 30:70. The evaluation of practical work, wherever applicable, will also be based on continuous internal assessment and on an end-semester practical examination.

**R. B.P.Ed. 13. Minimum Passing Standard:**

The minimum passing standard for CIA (Continuous Internal Assessment) and External Examinations shall be 40%, i.e. 12 marks out of 30 marks and 28 marks out of 70 marks respectively for theory courses. The minimum passing for both CIA & external examination shall be 50%, i.e. 15 marks out of 30 and 35 marks out of 70 marks for the practical courses.

**R. B.P.Ed 14. Grading:**

Once the marks of the CIA (Continues Internal Assessment) and SEA (Semester End Assesment) for each of the courses are available, both (CIA and SEA) will be added. The marks thus obtained for each of the courses will then be graded as per details provided in R. B.P.Ed. 17 from the first semester onwards the average performance within any semester from the first semester is indicated by Semester Grade Point Average (SGPA) while continuous performance (including the performance of the previous semesters also) starting from the first semester is indicated by Cumulative Grade Point Average (CGPA). These two are calculated by the following formula:

$$SGPA = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

$$CGPA = \frac{\sum_{i=1}^N SGPA_i}{N}$$

Where  $C_i$  is the Credit earned for the course is in any semester;  $G_i$  is the Grade point obtained by the student for the course  $i$  and  $n$  number of courses obtained in that semester;  $SGPA_j$  is SGPA of semester  $j$  and  $N$  number of semester. Thus CGPA is average of SGPA of all the semesters starting from the first semester to the current semester.

**R. B.P.Ed. 15. Classification of Final Results:**

For the purpose of declaring a candidate to have qualified for the Degree of Bachelor of Physical Education in the First class / Second class / Pass class or First class with Distinction, the



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Dr. Shantikul Bamta

marks and the corresponding CGPA earned by the candidate in Core Courses will be the criterion. It is further provided that the candidate should have scored the First / Second Class separately in both the grand total and end Semester (External) examinations.

#### R. B.P.Ed.16. Award of the B.P.Ed. Degree:

A candidate shall be eligible for the award of the degree of the B.P.Ed. only if he/she has earned the minimum required credit including Bonus Credits of the programme prescribed above.

#### R. B.P.Ed.17. Letter Grades and Grade Points:

- i. Two methods-relative grading or absolute grading- have been in vogue for awarding grades in a course. The relative grading is based on the distribution (usually normal distribution) of marks obtained by all the students in the course and the grades are awarded based on a cut-off mark or percentile. Under the absolute grading, the marks are converted to grades based on pre-determined class intervals. To implement the following grading system, the colleges and universities can use any one of the above methods.
- ii. The grades for each course would be decided on the basis of the percentage marks obtained at the end-semester external and internal examinations as per following table:

Percentage	Grade Point	Latter Grade	Description	Classification of final result
85 & above	8.5-10.0	O	Outstanding	First class with Distinction
70-84.99	7.0-8.49	A <sup>+</sup>	Excellent	
60-69.99	6.0-6.99	A	Very Good	First Class
55-59.99	5.5-5.99	B <sup>+</sup>	Good	Higher Second Class
50-54.99	5.0-5.49	B	Above Average	Second Class
40-49.99	4.0-4.99	C	Average	Pass Class
Below 40	0.0	F	Fail/ Dropped	Dropped
	0	AB	Absent	

#### R. B.P.Ed.18. Grade Point Calculation

Calculation of Semester Grade Point Average (SGPA) and Credit Grade Point (CGP) and declaration of class for B. P. Ed. Programme.

The credit grade points are to be calculated on the following basis:

$$CGP = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

#### Example – I

Marks obtained by Student in course CC101 = 65/100

Percentage of marks = 65 %

Grade from the conversion table is = A



*Dr. Shantilal Bamta*

$$\text{Grade Point} = 6.0 + 5 (0.99/9.99)$$

$$= 6.0 + 5 \times 0.1$$

$$= 6.0 + 0.5$$

$$= 6.5$$

The Course Credits = 04

$$\text{Credits Grade Point (CGP)} = 6.5 \times 04 = 26$$

The semester grade point average (SGPA) will be calculated as a weighted average of all the grade point of the semester courses. That is Semester grade point average (SGPA) = (sum of grade points of all eight courses of the semester) / total credit of the semester as per example given below:

#### SEMESTER-1

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
CC-101	4	65	A	6.5	26
CC-102	4	60	A	6	24
CC-103	4	62	A	6.2	24.8
EC-101/EC-102	4	57	B+	5.7	22.8
PC-101	4	55	B+	5.5	22
PC-102	4	72	A+	7.2	28.8
PC-103	4	66	A	6.6	26.4
PC - 104	4	72	A+	7.2	28.8
	32				203.6

#### Examples: Conversion of marks into grade points

$$\text{CC-101 } 65 = 60 + 5 = 6.0 + 5 \times (0.99 / 9.99) = 6.0 + 5 \times 0.1 = 6.0 + 0.5 = 6.5$$

$$\text{CC-102 } 60 = 6.0$$

$$\text{CC-103 } 62 = 60 + 2 = 6.0 + 2 \times (0.99/9.99) = 6.0 + 2 \times 0.1 = 6.0 + 0.2 = 6.2$$

$$\text{EC-101/EC-102 } 57 = 55 + 2 = 5.5 + 2 \times (0.49 / 4.99) = 5.5 + 2 \times 0.1 = 5.5 + 0.2 = 5.7$$

$$\text{PC-101 } 55 = 5.5$$

$$\text{PC-102 } 72 = 70 + 2 = 7.0 + 2 \times (1.49 / 14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.2$$

$$\text{PC-103 } 66 = 60 + 6 = 6.0 + 6 \times (0.99 / 9.99) = 6.0 + 6 \times 0.1 = 6.0 + 0.6 = 6.6$$

$$\text{PC - 104 } 72 = 70 + 2 = 7.0 + 2 \times (1.49 / 14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.2$$

SEMESTER GRADE POINT AVERAGE (SGPA) = Total Credit Grade Points

$$= 203.6 / 32 = 6.3625$$

$$\text{SGPA Sem. I} = 6.3625$$

At the end of Semester-I

$$\text{Total SGPA} = 6.3625$$

$$\text{Cumulative Grade Point Average (CGPA)} = 6.3625/1 = 6.3625$$

*Dr. Shantilal Bamta*



CGPA = 6.66875, Grade = A, Class = First Class

### SEMESTER-2

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
CC-201	4	76	A+	7.6	30.4
CC-202	4	64	A	6.4	25.6
CC-203	4	59	B+	5.9	23.6
EC-201/EC-202	4	80	A+	8	32
PC-201	4	49	C	4.9	19.6
PC-202	4	64	A	6.4	25.6
PC-203	4	55	B+	5.5	22
TP - 201	4	72	A+	7.2	28.8
	32				207.6

SGPA Sem. II = 6.4875

At the end of Semester-2

Total SGPA for two Semesters = 12.85

Cumulative Grade Point Average (CGPA) =  $12.85/2 = 6.425$

CGPA = 6.66875, Grade = A, Class = First Class

### SEMESTER-3

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
CC-301	4	64	A	6.4	25.6
CC-302	4	64	A	6.4	25.6
CC-303	4	59	B+	5.9	23.6
EC-301/EC-302	4	81	A+	8.1	32.4
PC-301	4	49	C	4.9	19.6
PC-302	4	64	A	6.4	25.6
PC-303	4	68	A	6.8	27.2
TP - 301	4	75	A+	7.5	30
	32				209.6

SGPA Sem. III = 6.55

At the end of Semester-3

Total SGPA for three Semesters = 19.4

Cumulative Grade Point Average (CGPA) =  $19.4/3 = 6.46667$

CGPA = 6.66875, Grade = A, Class = First Class



*[Signature]*  
 Dr. Shantilal Bamta

**SEMESTER-4**

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
CC-401	4	83	A+	8.3	33.2
CC-402	4	76	A+	7.6	30.4
CC-403	4	59	B+	5.9	23.6
EC-401/EC-402	4	81	A+	8.1	32.4
PC-401	4	49	C	4.9	19.6
PC-402	4	78	A+	7.8	31.2
TP-401	4	81	A+	8.1	32.4
TP-402	4	75	A+	7.5	30
	32				232.8

SGPA Sem. IV = 7.275

At the end of Semester-4

Total SGPA for all the four semesters = 26.675

Cumulative Grade Point Average (CGPA) =  $26.675 / 4 = 6.66875$

CGPA = 6.66875, Grade = A, Class = First Class

**Note:**

- (1) SGPA is calculated only if the candidate passes in all the courses i.e. get minimum C grade in all the courses.
- (2) CGPA is calculated only when the candidate passes in all the courses of all the previous and current semesters.
- (3) The cumulative grade point average will be calculated as the average of the SGPA of all the semesters continuously, as shown above.
- (4) For the award of the class, CGPA shall be calculated on the basis of:
  - (a) Marks of each Semester End Assessment And
  - (b) Marks of each Semester Continuous Internal Assessment for each course. The final Class for B.P.Ed. Degree shall be awarded on the basis of last CGPA (grade) from all the one to four semester examinations.

**R. B.P.Ed.19. Grievance Redressal Committee:**

The college/department shall form a Grievance Redressal Committee for each course in each college/department with the course teacher / Principal / Director and the HOD of the faculty as the members. This Committee shall solve all grievances of the students.

**R. B.P.Ed.20. Revision of Syllabi:**

1. Syllabi of every course should be revised according to the NCTE.
2. Revised Syllabi of each semester should be implemented in a sequential way.
3. In courses, where units / topics related to governmental provisions, regulations or laws, that change to accommodate the latest developments, changes or corrections are to be made consequentially as recommended by the Academic Council.



*Dr. Shantilal Bamta*

4. All formalities for revisions in the syllabi should be completed before the end of the semester for implementation of the revised syllabi in the next academic year.
5. During every revision, up to twenty percent of the syllabi of each course should be changed so as to ensure the appearance of the students who have studied the old (unrevised) syllabi without any difficulties in the examinations of revised syllabi.
6. In case, the syllabus of any course is carried forward without any revision, it shall also be counted as revised in the revised syllabi.

**Semester - I**

<b>PartA:TheoreticalCourse</b>						
Course Code	TitleofthePapers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
<b>CoreCourse</b>						
CC-101	History, Principles and foundation of Physical Education	4	4	30	70	100
CC-102	Anatomy and Physiology	4	4	30	70	100
CC-103	Health Education and Environmental Studies	4	4	30	70	100
<b>Elective Course (Anyone)</b>						
EC-101	Olympic Movement	4	4	30	70	100
EC-102	Officiating and Coaching					
<b>Part-B PracticalCourse</b>						
PC-101	Track and Field (Running Events)	6	4	30	70	100
PC-102	Swimming/Gymnastics/ Shooting	6	4	30	70	100
PC-103	Indigenous Sports: Kabaddi / Malkhambh/ lezim / March past	6	4	30	70	100
PC - 104	Mass Demonstration Activities: Kho-Kho / dumbbells / tipri / wands / hoop /umbrella	6	4	30	70	100
<b>Total</b>		40	32	240	560	800

**Note:** Total Number of hours required to earn 4 credits foreach Theory Course are 68-80 hours per semester whereas 102-120 hours foreach Practicum Course.



*[Signature]*  
Dr. Shantilal Barmaj

**Semester - II**

<b>Part A: Theoretical Course</b>						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
<b>Core Course</b>						
CC-201	Yoga Education	4	4	30	70	100
CC-202	Educational Technology and Methods of Teaching in Physical Education	4	4	30	70	100
CC-203	Organization and Administration	4	4	30	70	100
<b>Elective Course (Anyone)</b>						
EC-201	Contemporary issues in physical education, fitness and wellness	4	4	30	70	100
EC-202	Sports Nutrition and Weight Management					
<b>Part-B Practical Course</b>						
PC-201	Track and Field (Jumping Events)	6	4	30	70	100
PC-202	Yoga/Aerobics/ Gymnastics/ Swimming	6	4	30	70	100
PC-203	Racket Sports: Badminton/ Table Tennis/ Squash/ Tennis	6	4	30	70	100
<b>Part - C Teaching Practices</b>						
TP - 201	Teaching Practices (05 lessons in class room teaching and 05 lessons in outdoor activities)	6	4	30	70	100
<b>Total</b>		40	32	240	560	800

**Note:** Total Number of hours required to earn 4 credits for each Theory Course are 68-80 hours per semester whereas 102-120 hours for each Practicum Course.



*Dr. Shantilal Bamba*



**Semester - III**

<b>Part A: Theoretical Course</b>						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
<b>Core Course</b>						
CC-301	Sports Training	4	4	30	70	100
CC-302	Computer Applications in Physical Education	4	4	30	70	100
CC-303	Sports Psychology and Sociology	4	4	30	70	100
<b>Elective Course (Anyone)</b>						
EC-301	Sports Medicine, Physiotherapy and Rehabilitation	4	4	30	70	100
EC-302	Curriculum Design					
<b>Part-B Practical Course</b>						
PC-301	Track and Field (Throwing Events)	6	4	30	70	100
PC-302	Combative Sports: Martial Art/ Karate/ Judo/ Fencing/ Boxing/ Taekwondo/ Wrestling (Any two out of these)	6	4	30	70	100
PC-303	Team Games: Baseball/ Cricket/ Football/ Hockey/ Softball/ Volleyball/ Handball/ Basketball/ Netball (Any two of these)	6	4	30	70	100
<b>Part - C Teaching Practices</b>						
TP - 301	Teaching Practice: (Teaching Lesson Plans for Racket Sport/ Team Games/ Indigenous Sports) (out of 10 lessons 5 internal and 5 external at practicing school)	6	4	30	70	100
<b>Total</b>		40	32	240	560	800

**Note:** Total Number of hours required to earn 4 credits for each Theory Course are 68-80 hours per semester whereas 102-120 hours for each Practicum Course.




*(Handwritten signature)*

Dr. Shantilal Barmja

**Semester - IV**

<b>Part A: Theoretical Course</b>						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
<b>Core Course</b>						
CC-401	Measurement and Evaluation in Physical Education	4	4	30	70	100
CC-402	Kinesiology and Biomechanics	4	4	30	70	100
CC-403	Research and Statistics in Physical Education	4	4	30	70	100
<b>Elective Course (Anyone)</b>						
EC-401	Theory of sports and game	4	4	30	70	100
EC-402	Sports Management					
<b>Part-B Practical Course</b>						
PC-401	Track and Field / Swimming / Gymnastics (Any one out of three)	6	4	30	70	100
PC-402	Kabaddi/ Kho-Kho/ Baseball/ Cricket/ Football/Hockey/Softball/ Volleyball/ Handball/ Basketball/ Netball/ Badminton/ Table Tennis/ Squash/ Tennis (Any Two of these)	6	4	30	70	100
<b>Part - C Teaching Practices</b>						
TP-401	Sports specialization: Coaching lessons Plans (One for Sports 5 lessons)	6	4	30	70	100
TP-402	Games specialization: Coaching lessons Plans (One for Games 5 lessons)	6	4	30	70	100
<b>Total</b>		40	32	240	560	800
		160	128	960	2240	3200

**Note:** Total Number of hours required to earn 4 credits for each Theory Course are 68-80 hours per semester whereas 102-120 hours for each Practicum Course.

  
Dr. Shantilal Barmta

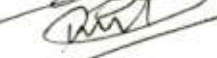


**SCHEME OF EXAMINATION**  
**SEMESTER - I**

Paper	Subject	Internal	External	Total Marks
	<b><u>THEORY (400)</u></b>			
CC-101	History, Principles and foundation of Physical Education	30	70	100
CC-102	Anatomy and Physiology	30	70	100
CC-103	Health Education and Environmental Studies	30	70	100
EC-101/102	Olympic Movement/Officiating and Coaching (Elective)	30	70	100
	<b><u>PRACTICAL (400)</u></b>			
PC-101	Track and Field (Running Events)	30	70	100
PC-102	Swimming/Gymnastics/Shooting	30	70	100
PC-103	Indigenous Sports: Kabaddi/ Malkhambh/ lezim/ March past (Any of one out of these)	30	70	100
PC-104	Mass Demonstration Activities: Kho-Kho / dumbbells / tipri / wands / hoop / umbrella (Any one out of these)	30	70	100
	<b>Total</b>	<b>240</b>	<b>560</b>	<b>800</b>

**SEMESTER - II**

Paper	Subject	Internal	External	Total Marks
	<b><u>THEORY (400)</u></b>			
CC-201	Yoga Education	30	70	100
CC-202	Educational Technology and Methods of Teaching in Physical Education	30	70	100
CC-203	Organization and Administration	30	70	100
EC-201/202	Contemporary issues in physical education, fitness and wellness/ Sports Nutrition and Weight Management (Elective)	30	70	100
	<b><u>PRACTICAL (300)</u></b>			
PC-201	Track and Field (Jumping Events)	30	70	100
PC-202	Yoga/Aerobics / Swimming / Gymnastics (Any of the two out of these)	30	70	100
PC-203	Racket Sports: Badminton/ Table Tennis/ Squash/ Tennis (Any of the two out of these)	30	70	100
	<b><u>TEACHING PRACTICE (100)</u></b>			
TP-201	Teaching Practice (Classroom and outdoor)	30	70	100
	<b>Total</b>	<b>240</b>	<b>560</b>	<b>800</b>

  
Dr. Shantilal Bamta

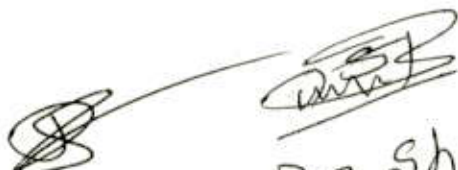


**SEMESTER -III**

Paper	Subject	Internal	External	Total Marks
	<b><u>THEORY (400)</u></b>			
CC-301	Sports Training	30	70	100
CC-302	Computer Applications in Physical Education	30	70	100
CC-303	Sports Psychology and Sociology	30	70	100
EC-301/302	Sports Medicine, Physiotherapy and Rehabilitation/Curriculum Design (Elective)	30	70	100
	<b><u>PRACTICAL (300)</u></b>			
PC-301	Track and Field (Throwing Events)	30	70	100
PC-302	Combative Sports : Martial Art, Karate, Judo, Fencing, Boxing, Taekwondo, Wrestling (Any two out of these)	30	70	100
PC-303	Team Games: Baseball, Cricket, Football, Hockey, Softball, Volleyball, Handball, Basketball, Netball (Any two of these)	30	70	100
	<b><u>TEACHING PRACTICE (100)</u></b>			
TP-301	Teaching Practice (Teaching Lesson Plans for Racket Sport/ Team Games/Indigenous Sports)	30	70	100
	<b>Total</b>	<b>240</b>	<b>560</b>	<b>800</b>

**SEMESTER -IV**

Paper	Subject	Internal	External	Total Marks
	<b><u>THEORY (400)</u></b>			
CC-401	Measurement and Evaluation in Physical Education	30	70	100
CC-402	Kinesiology and Biomechanics	30	70	100
CC-403	Research and Statistics in Physical Education	30	70	100
EC-401/402	Theory of sports and games(Specifically sports and games specialization)/Sports Management (Elective)	30	70	100
	<b><u>PRACTICAL (200)</u></b>			
PC-401	Track and Field/Swimming /Gymnastics (Any of one out of these)	30	70	100
PC-402	Kabaddi/ Kho-Kho/ Baseball/ Cricket/ Football/Hockey/Softball/ Volleyball/ Handball/ Basketball/ Netball/ Badminton/ Table Tennis/ Squash/ Tennis (Any of one out of these)	30	70	100
	<b><u>TEACHING PRACTICE (200)</u></b>			
TP-401	Sports Specialization: Coaching lessons Plans Track and Field/Swimming /Gymnastics (Any of one out of these)	30	70	100
TP-402	Game specialization Coaching lessons: Kabaddi/ Kho-Kho/ Baseball/ Cricket/Football/Hockey /Softball/ Volleyball/ Handball/ Basketball/ Netball/ Badminton/ Table Tennis/ Squash/ Tennis (Any of one out of these)	30	70	100
	<b>Total</b>	<b>240</b>	<b>560</b>	<b>800</b>

  
Dr. Shantilal Bamta



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

Ref. No.: MU/RO /2021/ 851- A

17<sup>th</sup> June 2021

**OFFICE ORDER**

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

The Board of Studies for the Department of Humanities is reconstituted as per Rule 7 of the Statutes of Mewar University, as under:

- 1) Prof. (Dr.) Chitralkha Singh, Dean, Faculty of Humanities, Social Science & Fine Arts  
- Chairman
- 2) Dr. Hitkaran Singh Ranawat, Assistant Professor, Sangam University, Bhilwara  
- External Member
- 3) Dr. Hukam Singh Champawat, Assistant Professor, RK Patni College, Kishangarh, Ajmer  
- External Member
- 4) Dr. Rajershi Kumar Kasudhan, Assistant Professor  
- Internal Member
- 5) Mrs. Vandana Chundawat, Assistant Professor  
- Internal Member
- 6) Dr. Sonia Singla, Head & Associate Professor  
- Convener

The terms of reference for the Board of Studies are as provided in Rule 7 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 last week of July 2021. 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)
- 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 HUMANITIES

DATE: 29/07/2021

## Minutes of Meeting of Board of Studies

The Board of Studies Meeting of the Department of Humanities was held on 29<sup>th</sup> July 2021 in Room No. 135 at 11:00 am onwards to approve the new/changes in curriculum and syllabus revision for session 2021-22.

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

- 1) Prof. (Dr.) Chitralekha Singh, Dean, Faculty of Humanities, Social Science & Fine Arts  
- Chairman
- 2) Dr. Hitkaran Singh Ranawat, Assistant Professor, Sangam University, Bhilwara  
- External Member
- 3) Dr. Hukam Singh Champawat, Assistant Professor, RK Patni College, Kishangarh, Ajmer  
- External Member
- 4) Dr. Rajershi Kumar Kasudhan, Assistant Professor  
- Internal Member
- 5) Mrs. Vandana Chundawat, Assistant Professor  
- Internal Member
- 6) Dr. Sonia Singla, Head & Associate Professor  
- Convener

Dr. Sonia Singla (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 16-10-2020

**Resolution:** Minutes of the previous BOS of the Humanities department held on 16-10-2020 were discussed and approved.

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

**Resolution:** Dr. Sonia Singla (Head, Department of Humanities) presented a departmental activity report mentioning all the activities conducted related to curricular development, research development, and faculty development.



**Agenda 3:** Review in any Program/Course

**Resolution:** No changes were made to the approved scheme and syllabus of the course B.A., M.A. (English), M.A. (Hindi), BPA, MPA, BVA, and MVA. The Committee decided to continue them as mentioned by previous meeting.

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

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

The meeting was concluded with a gentle thank you by the Chairperson.

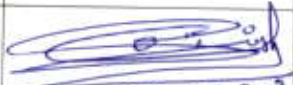


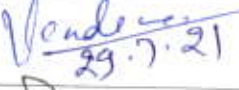



# MEWAR UNIVERSITY, GANGRAR, CHITTORGARH (RAJ.)

DEPARTMENT OF HUMANITIES

DATE: 29/07/2021

## Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Prof. (Dr.) Chitrleka, Dean, Department of Fine Arts	Chairman	 29.07.2021
2	Prof. Trigunatet Jaimini, Professor	External Member	
3	Dr. Gaurav Shukla, Professor JNV University, Jodhpur	External Member	
4	Dr. Rajershi Kumar Kasudhan, Assistant Professor, Music	Internal Member	 29.7.21
5	Ms. Vandana Chundawat, Head, English Department	Internal Member	 29.7.21
6	Dr. Sonia Singla, Head, Department of Humanities	Convener	



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

Ref. No.:MU/RO/2021/8/2

07<sup>th</sup> June 2021

**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 7 of the Statutes of Mewar University, as under:

- |   |                   |
|---|-------------------|
| 1. Mr. D. K. Sharma, Dean Academics   | - Chairman        |
| 2. Dr. Anil Tripathi, Associate Prof., Dept. of Zoology, MLV Govt. College Bhilwara | - External Member |
| 3. Dr. B. L. Jagetiya, Associate Prof. Dept. of Botany, MLV Govt. College Bhilwara  | - External Member |
| 4. Dr. Satish Kumar Ameta, Assistant Professor, Environmental Science.              | -Internal Member  |
| 5. Dr. Ankita Mathur, Assistant Professor, Microbiology                             | -Internal Member  |
| 6. Ngayam Rungung   | - Alumni          |
| 7. Dr. Umesh Garu, Head & Assistant Professor                                       | - Convener        |

The terms of reference for the Board of Studies are as provided in Rule 7 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 June 2021. 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)
- 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 LIFE SCIENCE

DATE: 22.06.2021

## 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 22<sup>nd</sup> June 2021 in Room No. 135 at 10:00 am onwards to approve the new/changes in curriculum and Syllabus revision for session 2021-22.

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

1. Mr. D. K. Sharma, Dean Academics - Chairman
2. Dr. Anil Tripathi, Associate Prof., Dept. of Zoology, MLV Govt. College Bhilwara - External Member
3. Dr. B. L. Jagetiya, Associate Prof. Dept. of Botany, MLV Govt. College Bhilwara - External Member
4. Dr. Satish Kumar Ameta, Assistant Professor, Environmental Science. - Internal Member
5. Dr. Ankita Mathur, Assistant Professor, Microbiology - Internal Member
6. Ngayam Rungsung - Alumni
7. Dr. Umesh Garu, Head & Assistant Professor - Convener

At the outset, Dr. Umesh Garu, 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 19-06-2020

**Resolution:** Minutes of the previous BOS of the Life Science Department held on 19-06-2020 were discussed and approved.

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

**Resolution:** Dr. Umesh Garu (Head, Department of Life Science) presented departmental activities report mentioning all the activities related to curricular development, research development, faculty development and Industrial collaboration were presented.

**Agenda 3:** Revision of Existing Programmes/Courses

**Resolution:**

- M.Sc Biochemistry course adds some new courses related to “Techniques of Molecular Biology” as skill Course “in IInd Semester & Research Methodology in IVth Semester”. **(Annexure 2)**



- The reviewed scheme and syllabus for M.Sc Biotechnology, for PG students, was discussed in the upcoming session 2021-22. **(Annexure 3)**

**Agenda 4:** Introduction of New Programmes/Course

**Resolution:** As per the recommendation or suggestion received from the member of the last BOS committee a new programme B.Sc Microbiology will be started with the CBCS scheme on a credit basis so that students can opt according to their interests. The approved scheme with the distribution of marks and syllabus (Theory & Practical) is attached here. **(Annexure 4)**

**Agenda 5:** Any other suggestions by BOS Committee

**Resolution:** To discuss the syllabus, the interdisciplinary committee should be formed with other departments (Biochemistry, Chemistry, Biotechnology, English, etc.)






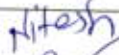
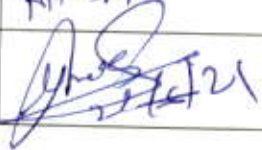
**Agenda 6:** To recommend the approved syllabus to Academic Council.

**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.



Annexure 1: Attendance Sheet

S.NO.	Name & Designation	Designation in BOS	Signature
1	Dean, Faculty of Science & Technology	Chairman	
2	Dr. B.L. Yadav, Retd. Professor, Dept. of Botany, MLV Govt. College Bhilwara, MDSU Ajmer	External Member	
3	Dr. C.K. Sharma, Retd. Professor, Dept. of Zoology, MLV Govt. College Bhilwara, MDSU Ajmer	External Member	 02/06/2021
4	Dr. Satish Kumar Ameta, assistant Professor	Internal Member	 Satish 02/06/21
5	Dr. ankita Mathur, Assistant Professor	Internal Member	
6	Nitesh Kumar Malvi	Alumni	 Nitesh
7	Dr. Umesh Garu, Assistant Professor	Convener	 Umesh 02/06/21

## **MBT 102: Analytical Techniques & Research Methodology**

### **Unit I**

Microscopy: Principles and applications, simple, compound, phase-contrast and fluorescent microscopes, Electron microscopy: SEM and TEM, Centrifugation: Basic Principle of Centrifugation, Instrumentation of Ultracentrifuge (Preparative, Analytical), Factors affecting Sedimentation velocity, Standard Sedimentation Coefficient, Centrifugation of associating systems, Rate-Zonal centrifugation, sedimentation equilibrium Centrifugation,

### **Unit II**

Separation & Identification of Materials: Concept of Chromatography (Partition Chromatography, Paper Chromatography, Adsorption Chromatography, TLC, GLC, Ion Exchange Chromatography, Gel Chromatography, HPLC, Affinity Chromatography); Electrophoresis (Gel Electrophoresis, Paper Electrophoresis); Blotting- Southern, Western and Northern blotting, Immuno electrophoresis, DNA finger printing and ELISA.

### **Unit III**

Spectroscopy: Electromagnetic spectrum, Beer Lambert's Law. Photometry, UV/VIS Spectrophotometry, Infrared spectroscopy, Atomic absorption spectroscopy, Mass spectroscopy (LC-MS, GC-MS), Fluorescent spectroscopy; Applications of different Spectroscopic techniques in Biological science. NMR Spectroscopy: Basic principle of NMR spectroscopy, Experimental technique & instrumentation, Chemical shift, Hyper fine splitting, Relaxation process. Circular dichroism spectroscopy (CD) and Applications of Circular dichroism spectroscopy in biotechniques.

### **UNIT- IV**

Fixation and Fixatives: Methods of fixation, chemicals used as fixatives and their preparation, chemical basis of fixation (formaldehyde, glutaraldehyde, chromium salts, mercury salts, alcohol and acetone), washing and post fixation methods, decalcification, Cryopreservation. Microtomy and sample preparation for microscopy- Dehydration, clearing and infiltration, embedding methods, trimming, sectioning. Cryostat sectioning and mounting, mounting media, freezing techniques, freeze drying, freeze fracture and itching. Staining techniques (Nuclear and Cytoplasmic Stains). Tracer Techniques: Nature and types of radiations, preparation of labelled biological samples, Detection and measurement of radioactivity, GM counter, Scintillation counter, Autoradiography, Flow cytometry, Safety measures in handling radioisotopes,

### **UNIT V**

Basic concepts of research: Research-definition and types of research (Descriptive vs analytical; applied vs fundamental; quantitative vs qualitative; conceptual vs empirical). Research methods vs methodology. Literature-review and its consolidation; Library research; field research; laboratory research.

The art of scientific writing and its presentation: Numbers, units, abbreviations and nomenclature used in scientific writing. Writing references. Powerpoint presentation. Poster presentation. Scientific writing and ethics, Ethical Issues: Intellectual property Rights, Commercialization, Copy Right, Royalty, Patent law, Plagiarism, Citation, Acknowledgement

## Techniques of Molecular Biology

- Agarose Gel Electrophoresis, SDS Poly Acrylamide Gel Electrophoresis for Protein Native Poly Acrylamide Gel Electrophoresis.
- Restriction Digestion, PCR Techniques

### Suggested Readings:

1. Friefielder DM. (1983). Physical Biochemistry: Applications to biochemistry and molecular biology. 2nd revised edition, W.H Freeman.
2. Skoog DA, Holler FJ, Crouch SR. (2014). Principles of Instrumentation analysis, 6<sup>th</sup> edition, cengage.
3. Robyt JF, White BJ. (1990). Biochemical techniques: Theory and practice, WavelandPr Inc.

# Mewar University, Chittorgarh

Scheme for B.Sc. (Hons.) Microbiology (CBCS Scheme)  
2021-22

B.Sc. - I SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks	
1	Core Course 1	B1MB-CT01	Biochemistry	4	35	50	15	100	
2	Core Course 2	B1MB-CT02	Cell Biology	4	35	50	15	100	
3	Generic Elective 1	B1MB-GET01	Any one from the given list	4	35	50	15	100	
4	Ability Enhancement Compulsory Course 1	B1MB-AEC01	Any one from the given list	4	35	50	15	100	
5	Core Course Practical 1	B1MB-CP01	Biochemistry Lab	2	25	15	10	50	
6	Core Course Practical 2	B1MB-CP02	Cell Biology Lab	2	2	50	50	50	
7	Generic Elective Practical 2	B1MB-GEP01	Based on choice of Generic Elective Lab	2	2	50	50	50	
Total				20		50		500	

B.Sc. - II SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks	
1	Core Course 3	B2MB-CT03	Bacteriology	4	35	50	15	100	
2	Core Course 4	B2MB-CT04	Microbial Physiology and Metabolism	4	35	50	15	100	
3	Generic Elective 2	B2MB-GET02	Any one from the given list	4	35	50	15	100	
4	Ability Enhancement Compulsory Course 2	B2MB-AEC02	Any one from the given list	4	35	50	15	100	
5	Core Course Practical 3	B2MB-CP03	Bacteriology Lab	2	25	15	10	50	
6	Core Course Practical 4	B2MB-CP04	Microbial Physiology and Metabolism Lab	2	2	50	50	50	
7	Generic Elective Practical 2	B2MB-GEP02	Based on choice of Generic Elective Lab	2	2	50	50	50	
Total				20		50		500	

B.Sc. - III SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks	
1	Core Course 5	B3MB-CT05	Virology	4	35	50	15	100	
2	Core Course 6	B3MB-CT06	Instrumentation and Biotechniques	4	35	50	15	100	
3	Core Course 7	B3MB-CT07	Molecular Biology	4	35	50	15	100	
4	Generic Elective 3	B3MB-GET03	Any one from the given list	4	35	50	15	100	
5	Skill Enhancement Courses 1	B3MB-SEC01	Any one from the given list	4	35	50	15	100	
6	Core Course Practical 5	B3MB-CP05	Virology Lab	2	25	15	10	50	
7	Core Course Practical 6	B3MB-CP06	Instrumentation and Biotechniques Lab	2	2	50	50	50	
8	Core Course Practical 7	B3MB-CP07	Molecular Biology Lab	2	2	50	50	50	
9	Generic Elective Practical 3	B3MB-GEP03	Based on choice of Generic Elective Lab	2	2	50	50	50	
Total				26		50		650	

B.Sc. - IV SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks	
1	Core Course 8	B4MB-CT08	Microbial Genetics	4	35	50	15	100	
2	Core Course 9	B4MB-CT09	Environmental Microbiology	4	35	50	15	100	
3	Core Course 10	B4MB-CT10	Food and Dairy Microbiology	4	35	50	15	100	
4	Generic Elective 4	B4MB-GET04	Any one from the given list	4	35	50	15	100	
5	Skill Enhancement Courses 2	B4MB-SEC02	Any one from the given list	4	35	50	15	100	
6	Core Course Practical 8	B4MB-CP08	Any one from the given list	2	25	15	10	50	
7	Core Course Practical 9	B4MB-CP09	Microbial Genetics Lab	2	2	50	50	50	
8	Core Course Practical 10	B4MB-CP10	Environmental Microbiology Lab	2	2	50	50	50	
9	Generic Elective Practical 4	B4MB-GEP04	Food and Dairy Microbiology Lab	2	2	50	50	50	
Total				2		50		50	

Based on choice of Generic Elective Lab

B.Sc. - V SEMESTER										Total	
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks			
1	Core Course 11	B5MB-CT11	Industrial Microbiology	4	35	50	15	100			
2	Core Course 12	B5MB-CT12	Immunology	4	35	50	15	100			
3	Discipline Specific Elective 1	B5MB-ET01	Any one from the given list	4	35	50	15	100			
4	Discipline Specific Elective 2	B5MB-ET02	Any one from the given list	4	35	50	15	100			
5	Core Course Practical 11	B5MB-CP11	Industrial Microbiology Lab	4	35	50	15	100			
6	Core Course Practical 12	B5MB-CP12	Immunology Lab	2		50		50			
7	Discipline Specific Elective Practical 1	B5MB-DEP01	Based on choice of DSE Lab	2		50		50			
8	Discipline Specific Elective Practical 2	B5MB-DEP02	Based on choice of DSE Lab	2		50		50			
<b>Total</b>				<b>24</b>		<b>50</b>		<b>50</b>	<b>600</b>		
B.Sc. - VI SEMESTER										Total	
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	Total Marks			
1	Core Course 13	B6MB-CT13	Medical Microbiology	4	35	50	15	100			
2	Core Course 14	B6MB-CT14	Recombinant DNA Technology	4	35	50	15	100			
3	Discipline Specific Elective 3	B6MB-ET03	Any one from the given list	4	35	50	15	100			
4	Discipline Specific Elective 4	B6MB-ET04	Any one from the given list	4	35	50	15	100			
5	Core Course Practical 13	B6MB-CP13	Medical Microbiology Lab	4	35	50	15	100			
6	Core Course Practical 14	B6MB-CP14	Recombinant DNA Technology Lab	2		50		50			
7	Discipline Specific Elective Practical 3	B6MB-DEP03	Based on choice of DSE Lab	2		50		50			
8	Discipline Specific Elective Practical 4	B6MB-DEP04	Based on choice of DSE Lab	2		50		50			
<b>Total</b>				<b>24</b>		<b>50</b>		<b>50</b>	<b>600</b>		
<b>Total Credit</b>				<b>140</b>					<b>3500</b>		
<b>Total Marks</b>									<b>600</b>		

Generic Elective (Any one per semester in semester I-IV)	
Introduction and Scope of Microbiology	
Biomathematics and Biostatistics	
Microbial Metabolism	
Industrial and Food Microbiology	
Microbes in Environment	
Medical Microbiology and Immunology	
Genetic Engineering and Biotechnology	

Skill Enhancement Course (Any one per semester in semesters III & IV)	
Microbial Quality Control in Food and Pharmaceutical Industries	
Microbial Diagnosis in Health Clinics	
Biofertilizers and Biopesticides	
Food Fermentation Techniques	
Management of Human Microbial Diseases	
Microbiological Analysis of Air and Water	

Discipline Specific Elective (Any two per semester in semesters V & VI)	
Bioinformatics	
Microbial Biotechnology	
Advances in Microbiology	
Plant Pathology	
Inheritance Biology	
Microbes in Sustainable Agriculture and Development	
Biosafety and Intellectual Property Rights	
Project Work	

Ability Enhancement Compulsory Course (Sem I & II)	
English	
Environmental Science	



# Mewar University, Chittorgarh

Scheme for B.Sc.-BCZ(General)  
Year: 2019-20

B. SC. - I SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	
1		Diversity of Microbes, Algae, Fungi And Archaeplastids	4					
2		Diversity of Microbes, Algae, Fungi And Archaeplastids Lab	2	50	35	50	15	100
3		Animal Diversity & Invertebrates	4					
4		Animal Diversity & Invertebrates Lab	2	50	35	50	15	100
5		Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	4					
6		Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons Lab	2	50	35	50	15	100
7		English	2					
			2	50	35	50	15	100
B. SC. - II SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	
1		Plant Taxonomy and Ecology	4					
2		Plant Taxonomy and Ecology Lab	2	50	35	50	15	100
3		Animal Diversity, Comparative Anatomy Of Vertebrates And Zoogeography	4					
4		Animal Diversity, Comparative Anatomy Of Vertebrates And Zoogeography Lab	2	50	35	50	15	100
5		Chemical Energetics, Equilibria & Functional Group Organic Chemistry	4					
6		Chemical Energetics, Equilibria & Functional Group Organic Chemistry Lab	2	50	35	50	15	100
7		Environment Science	2					
			2	50	35	50	15	100
B. SC. - III SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part I	End Term Exam Part-II	Teacher Assessment	
1		Plant Anatomy And Embryology	4					
2		Plant Anatomy And Embryology Lab	2	50	35	50	15	100
3		Biorefrigerators	2					
4		Genetics And Evolutionary Biology	4					
5		Genetics And Evolutionary Biology Lab	2	50	35	50	15	100
6		Aquarium Fish Keeping	2					
7		Conductance, Electrochemistry & Functional Group Organic Chemistry	4					
8		Conductance, Electrochemistry & Functional Group Organic Chemistry Lab	2	50	35	50	15	100
9		Intellectual Property Rights	2					
			2	50	35	50	15	100
B.Sc. - IV SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	
1		Plant Physiology And Metabolism	4					
2		Plant Physiology And Metabolism Lab	2	50	35	50	15	100
3		Rhinobotany	2					
4		Physiology, Biochemistry And Endocrinology	4					
5		Physiology, Biochemistry And Endocrinology Lab	2	50	35	50	15	100
6		Apiculture	2					
7		Transition Metal & Coordination Chemistry, States Of Matter And Ch	4					
8		Transition Metal & Coordination Chemistry, States Of Matter And Ch	2	50	35	50	15	100
9		Pharmaceutical Chemistry	2					
			2	50	35	50	15	100
B. SC. - V SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	
1		Cell And Molecular Biology	4					
2		Cell And Molecular Biology Lab	2	50	35	50	15	100
3		Nursery And Gardening	2					
4		Developmental Biology	4					
5		Developmental Biology Lab	2	50	35	50	15	100
6		Environment And Public Health	2					
7		Analytical Methods in Chemistry	4					
8		Analytical Methods in Chemistry Lab	2	50	35	50	15	100
9		Pesticide Chemistry	2					
			2	50	35	50	15	100
B. SC. - VI SEMESTER								
S.No.	Paper Code	Paper Name	Credits	Practical Marks	Marks Distribution			Total Marks
					End Term Exam Part-I	End Term Exam Part-II	Teacher Assessment	
1		Economic Botany And Biotechnology	4					
2		Economic Botany And Biotechnology Lab	2	50	35	50	15	100
3		Medicinal Botany	2					
4		Immunology	4					
5		Immunology Lab	2	50	35	50	15	100
6		Sericulture	2					
7		Instrumental methods of chemical Analysis	4					
8		Instrumental methods of chemical Analysis Lab	2	50	35	50	15	100
9		Fuel Chemistry	2					
			2	50	35	50	15	100



Newark University, Clifton, NJ

2021-22

LN	Type of Course	Page Code	CREDIT VALUE	Seq.	Req. (Prerequisites)	Credits	End Term Exam Part I	End Term Exam Part II	Total Credits	Total Hours
1	Gen Chem I	EMCH 101	3	1		3			3	90
2	Gen Chem II	EMCH 102	3	2	EMCH 101	3			3	90
3	Gen Chem III	EMCH 103	3	3	EMCH 102	3			3	90
4	Gen Chem IV	EMCH 104	3	4	EMCH 103	3			3	90
5	Gen Chem V	EMCH 105	3	5	EMCH 104	3			3	90
6	Gen Chem VI	EMCH 106	3	6	EMCH 105	3			3	90
7	Gen Chem VII	EMCH 107	3	7	EMCH 106	3			3	90
8	Gen Chem VIII	EMCH 108	3	8	EMCH 107	3			3	90
9	Gen Chem IX	EMCH 109	3	9	EMCH 108	3			3	90
10	Gen Chem X	EMCH 110	3	10	EMCH 109	3			3	90
11	Gen Chem XI	EMCH 111	3	11	EMCH 110	3			3	90
12	Gen Chem XII	EMCH 112	3	12	EMCH 111	3			3	90
13	Gen Chem XIII	EMCH 113	3	13	EMCH 112	3			3	90
14	Gen Chem XIV	EMCH 114	3	14	EMCH 113	3			3	90
15	Gen Chem XV	EMCH 115	3	15	EMCH 114	3			3	90
16	Gen Chem XVI	EMCH 116	3	16	EMCH 115	3			3	90
17	Gen Chem XVII	EMCH 117	3	17	EMCH 116	3			3	90
18	Gen Chem XVIII	EMCH 118	3	18	EMCH 117	3			3	90
19	Gen Chem XIX	EMCH 119	3	19	EMCH 118	3			3	90
20	Gen Chem XX	EMCH 120	3	20	EMCH 119	3			3	90
21	Gen Chem XXI	EMCH 121	3	21	EMCH 120	3			3	90
22	Gen Chem XXII	EMCH 122	3	22	EMCH 121	3			3	90
23	Gen Chem XXIII	EMCH 123	3	23	EMCH 122	3			3	90
24	Gen Chem XXIV	EMCH 124	3	24	EMCH 123	3			3	90
25	Gen Chem XXV	EMCH 125	3	25	EMCH 124	3			3	90
26	Gen Chem XXVI	EMCH 126	3	26	EMCH 125	3			3	90
27	Gen Chem XXVII	EMCH 127	3	27	EMCH 126	3			3	90
28	Gen Chem XXVIII	EMCH 128	3	28	EMCH 127	3			3	90
29	Gen Chem XXIX	EMCH 129	3	29	EMCH 128	3			3	90
30	Gen Chem XXX	EMCH 130	3	30	EMCH 129	3			3	90

**Gen Chem XXIII (EMCH 123) Prerequisite:**

- EMCH 122

**Gen Chem XXIV (EMCH 124) Prerequisite:**

- EMCH 123

**Gen Chem XXV (EMCH 125) Prerequisite:**

- EMCH 124

**Gen Chem XXVI (EMCH 126) Prerequisite:**

- EMCH 125



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Mewar University, Chittorgarh  
 Institute for M.Sc. Botany (CBES)  
 2021-22

M.Sc. - I SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Course 1	MIBOT-ET01	Biology and Diversity of Plants (Mosses, Algae and Fungi)	4	60	40	100
2	Course 2	MIBOT-ET02	Ecology and Evolution	4	60	40	100
3	Course 3	MIBOT-ET03	Cell Biology and Molecular Genetics	4	60	40	100
4	Course 4	MIBOT-ET04	Plant Physiology	4	60	40	100
5	Course Practical 1	MIBOT-EP01	Core Practical-1	4	60	40	100
6	Course Practical 2	MIBOT-EP02	Core Practical-2	4	60	40	100
Total				24	120	80	200

M.Sc. - II SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Course 1	MIBOT-ET05	Biology and Diversity of Invertebrates	4	60	40	100
2	Course 2	MIBOT-ET06	Plant Systematics & Biogeography	4	60	40	100
3	Course 3	MIBOT-ET07	Microbiology	4	60	40	100
4	Course Practical 3	MIBOT-EP03	Core Practical-3	4	60	40	100
5	Course Practical 4	MIBOT-EP04	Core Practical-4	4	60	40	100
6	Course Practical 5	MIBOT-EP05	Core Practical-5	4	60	40	100
Total				24	120	80	200

M.Sc. - III SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Course 1	MIBOT-ET08	Systematic and Reproductive Plant Biology	4	60	40	100
2	Course 2	MIBOT-ET09	Plant Systematics & Biogeography	4	60	40	100
3	Course 3	MIBOT-ET10	Any one from the given list	4	60	40	100
4	Course Practical 6	MIBOT-EP06	Core Practical-6	4	60	40	100
5	Course Practical 7	MIBOT-EP07	Core Practical-7	4	60	40	100
Total				20	100	70	170

M.Sc. - I SEMESTER (A)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	Teacher Assessment	Project/ Dissertation Report	Practicals A Viva-Voce	Total Marks
1	Training	MIBOT-EP01	Major Research Project	26	100	150	250	650
Total				26	100	150	250	650

M.Sc. - II SEMESTER (A)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Minor Project	MIBOT-EP02	Minor Research Project	4	60	40	100
2	Discipline Specific	MIBOT-ET11	Any one from the given list	4	60	40	100
3	Discipline Specific	MIBOT-ET12	Any one from the given list	4	60	40	100
4	Discipline Specific	MIBOT-ET13	Any one from the given list	4	60	40	100
Total				16	120	80	200

Course code	Course Name	3/8th Course
MIBOT-ET01	Biology and Diversity of Plants (Mosses, Algae and Fungi)	3/8th Course
MIBOT-ET02	Ecology and Evolution	3/8th Course
MIBOT-ET03	Cell Biology and Molecular Genetics	3/8th Course
MIBOT-ET04	Plant Physiology	3/8th Course
MIBOT-ET05	Biology and Diversity of Invertebrates	3/8th Course
MIBOT-ET06	Plant Systematics & Biogeography	3/8th Course
MIBOT-ET07	Microbiology	3/8th Course
MIBOT-ET08	Systematic and Reproductive Plant Biology	3/8th Course
MIBOT-ET09	Plant Systematics & Biogeography	3/8th Course
MIBOT-ET10	Any one from the given list	3/8th Course
MIBOT-ET11	Any one from the given list	3/8th Course
MIBOT-ET12	Any one from the given list	3/8th Course
MIBOT-ET13	Any one from the given list	3/8th Course

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# Mewar University, Chittorgarh

Scheme for M.Sc. Zoology CBCS Scheme  
2021-22

## M.Sc. - I SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 1	M1200-CT01	Animal Diversity of Invertebrates	4	60	40	100
2	Core Course 2	M1200-CT02	Ecology & Evolution	4	60	40	100
3	Core Course 3	M1200-CT03	Cell Biology and Molecular Genetics	4	60	40	100
4	Core Course 4	M1200-CT04	Biochemistry	4	60	40	100
5	Core Course Practical 1	M1200-CP01	Core Practical-1	4	60	40	100
6	Core Course Practical 2	M1200-CP02	Core Practical-2	4	60	40	100
Total				24	100	100	600

## M.Sc. - II SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 5	M2200-CT05	Vertebrate and Comparative Anatomy	4	60	40	100
2	Core Course 6	M2200-CT06	Animal Physiology	4	60	40	100
3	Core Course 7	M2200-CT07	Molecular Biology	4	60	40	100
4	Core Course 8	M2200-CT08	Bioinformatics	4	60	40	100
5	Core Course Practical 3	M2200-CP03	Core Practical-3	4	60	40	100
6	Core Course Practical 4	M2200-CP04	Core Practical-4	4	60	40	100
7	Skill Course 1	M2200-SEC01	Any one from the given list	2	100	20	120
Total				26	30	20	650

## M.Sc. - III SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 9	M3200-CT09	Immunology	4	60	40	100
2	Core Course 10	M3200-CT10	Developmental Biology	4	60	40	100
3	Discipline Specific Elective 1	M3200-ET01	Any one from the given list	4	60	40	100
4	Discipline Specific Elective 2	M3200-ET02	Any one from the given list	4	60	40	100
5	Core Course Practical 5	M3200-CP05	Core Practical-5	4	60	40	100
6	Discipline Specific Elective Practical 1	M3200-EP01	DSE Practical-1	4	100	40	140
Total				24	100	100	600

## M.Sc. - IV SEMESTER (A)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	Teacher Assessment	Project/Dissertation Report	Presentation & Viva Voce	Total Marks
1	Training	M4200-CT11	Major Research Project	20		20	20	60

## M.Sc. - IV SEMESTER (B)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Minor Project	M4200-CT11	Minor Research Project	14	200	150	350
2	Discipline Specific Elective 2	M4200-ET03	Any one from the given list	4	60	40	100
3	Discipline Specific Elective 4	M4200-ET04	Any one from the given list	4	60	40	100
4	Discipline Specific Elective Practical 2	M3200-EP02	DSE Practical-2	4	60	40	100
Total				4	100		100
Grand Total				26			650
				100			2500

Course code	Core Course
M1200-CT01	Animal Diversity of Invertebrates
M1200-CT02	Ecology & Evolution
M1200-CT03	Cell Biology & Molecular Genetics
M1200-CT04	Biochemistry
M2200-CT05	Vertebrate and Comparative Anatomy
M2200-CT06	Animal Physiology
M2200-CT07	Molecular Biology
M2200-CT08	Bioinformatics
M3200-CT09	Immunology
M3200-CT10	Developmental Biology

Course code	Skill Course
M2200-SEC01	Computational Biology
M2200-SEC02	Biostatistics

Course code	Discipline Specific Elective
M1200-ET01	Fish - Biology (Evolution & Phylogeny) / Insect diversity
M1200-ET02	Applied fish biology / Insect physiology toxicology and
M4200-ET03	Research Methodology / Wildlife Biology: Biodiversity and
M4200-ET04	Animal Behaviour (Ethology) & Microbiology



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# Mewar University, Chittorgarh

Scheme for M.Sc. Microbiology CBCS Scheme

2021-22

M.Sc. - I SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 1	M1MB-CT01	Instrumentation and Analytical Techniques	4	60	40	100
2	Core Course 2	M1MB-CT02	Fundamentals of Microbiology	4	60	40	100
3	Core Course 3	M1MB-CT03	Cell Biology and Molecular Genetics	4	60	40	100
4	Core Course 4	M1MB-CT04	Biochemistry	4	60	40	100
5	Core Course Practical 1	M1MB-CP01	Core Practical-1	4	60	40	100
6	Core Course Practical 2	M1MB-CP02	Core Practical-2	4	60	40	100
Total				24	100	100	600

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 5	M2MB-CT05	Genetic Engineering	4	60	40	100
2	Core Course 6	M2MB-CT06	Fermentation Technology	4	60	40	100
3	Core Course 7	M2MB-CT07	Molecular Biology	4	60	40	100
4	Core Course 8	M2MB-CT08	Biostatistics	4	60	40	100
5	Core Course Practical 3	M2MB-CP03	Core Practical-3	4	60	40	100
6	Core Course Practical 4	M2MB-CP04	Core Practical-4	4	60	40	100
7	Skill Course 1	M2MB-SEC01	Any one from the given list	4	100		100
Total				28	100	20	650

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 9	M3MB-CT09	Microbial Physiology and Metabolism	4	60	40	100
2	Core Course 10	M3MB-CT10	Virology	4	60	40	100
3	Discipline Specific Elective 1	M3MB-ET01	Any one from the given list	4	60	40	100
4	Discipline Specific Elective 2	M3MB-ET02	Any one from the given list	4	60	40	100
5	Core Course Practical 5	M3MB-CP05	Core Practical-5	4	60	40	100
6	Discipline Specific Elective Practical 1	M3MB-EP01	DSE Practical-1	4	100		100
Total				24	100	100	600

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	Teacher Assessment	Project/Dissertation Report	Presentation & Viva-Voce	Total Marks
1	Training	M4MB-CT11	Major Research Project	26	200	250	200	650

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Minor Project	M4MB-CT11	Minor Research Project	26	200	150	350
2	Discipline Specific Elective 3	M4MB-ET03	Any one from the given list	4	60	40	100
3	Discipline Specific Elective 4	M4MB-ET04	Any one from the given list	4	60	40	100
4	Discipline Specific Elective Practical 2	M3MB-EP02	DSE Practical-2	4	60	40	100
Total				38	100	100	650

Course code	Core Course
M1MB-CT01	Instrumentation and Analytical Techniques
M1MB-CT02	Fundamentals of Microbiology
M1MB-CT03	Cell Biology and Molecular Genetics
M1MB-CT04	Biochemistry
M2MB-CT05	Genetic Engineering
M2MB-CT06	Fermentation Technology
M2MB-CT07	Molecular Biology
M2MB-CT08	Biostatistics
M3MB-CT09	Microbial Physiology and Metabolism
M3MB-CT10	Virology

Course code	Skill Course
M2MB-SEC01	Techniques of Microbiology
M2MB-SEC01	Biostatistics

Course code	Discipline Specific Elective
M3MB-ET01	Microbial Genetics
M3MB-ET01	Host Parasite Interactions
M3MB-ET01	Microbial Ecology
M3MB-ET01	Environmental Microbiology
M4MB-ET03	Research Methodology
M4MB-ET03	Food and Dairy Microbiology
M4MB-ET04	Advances in Microbiology
M4MB-ET04	Medical Microbiology



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**Mewar University, Chittorgarh**  
Scheme for M.Sc. Environmental Science (ERCS)  
2021-22

M.Sc. - I SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks		
1	Core Course 1	MEVS-CT01	Basic Concepts of Ecology and Environmental	4	60	40	100		
2	Core Course 2	MEVS-CT02	Earth Processes and Natural Cycles	4	60	40	100		
3	Core Course 3	MEVS-CT03	Spatial Resources and Their Conservation	4	60	40	100		
4	Core Course 4	MEVS-CT04	Environmental Pollution and Monitoring	4	60	40	100		
5	Core Course Practical 1	MEVS-CP01	Core Practical-I	4	100	40	100		
6	Core Course Practical 2	MEVS-CP02	Core Practical-II	4	100	40	100		
<b>Total</b>				<b>24</b>	<b>100</b>	<b>200</b>	<b>100</b>		



M.Sc. - II SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks		
1	Core Course 5	MEVS-CT05	Biodiversity Conservation	4	60	40	100		
2	Core Course 6	MEVS-CT06	Environmental Impact Assessment	4	60	40	100		
3	Core Course 7	MEVS-CT07	Environmental and Occupational Health	4	60	40	100		
4	Core Course 8	MEVS-CT08	Restoration and Environmental Analysis	4	60	40	100		
5	Core Course Practical 3	MEVS-CP03	Core Practical-I	4	60	40	100		
6	Core Course Practical 4	MEVS-CP04	Core Practical-II	4	60	40	100		
7	Skill Course 1	MEVS-SC01	Any one from the given list	2	100	20	100		
<b>Total</b>				<b>26</b>	<b>100</b>	<b>200</b>	<b>100</b>		

M.Sc. - III SEMESTER									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks		
1	Core Course 9	MEVS-CT09	Environmental Engineering and Waste management	4	60	40	100		
2	Core Course 10	MEVS-CT10	Environmental Laws and Ethics	4	60	40	100		
3	Discipline Specific Elective 1	MEVS-ET01	Any one from the given list	4	60	40	100		
4	Discipline Specific Elective 2	MEVS-ET02	Any one from the given list	4	60	40	100		
5	Core Course Practical 5	MEVS-CP05	Core Practical-5	4	60	40	100		
6	Discipline Specific Elective Practical 1	MEVS-EP01	DSE Practical-1	4	100	40	100		
<b>Total</b>				<b>24</b>	<b>100</b>	<b>200</b>	<b>100</b>		

M.Sc. - IV SEMESTER (A)									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	Teacher Assessment	Project/ Dissertation Report	Presentation & Viva-Voce	Total Marks	
1	Trainings	MEVS-PI01	Major Research Project	26	200	250	200	650	
<b>Total</b>				<b>26</b>	<b>200</b>	<b>250</b>	<b>200</b>	<b>650</b>	

M.Sc. - IV SEMESTER (B)									
S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks		
1	Minor Project	MEVS-PI02	Minor Research Project	14	200	150	350		
2	Discipline Specific Elective 3	MEVS-ET03	Any one from the given list	4	60	40	100		
3	Discipline Specific Elective 4	MEVS-ET04	Any one from the given list	4	60	40	100		
4	Discipline Specific Elective Practical 2	MEVS-EP02	DSE Practical-2	4	60	40	100		
<b>Total</b>				<b>26</b>	<b>100</b>	<b>100</b>	<b>100</b>		



Mewar University, Chittorgarh  
Scheme for M.Sc. Biotechnology (CBCS Scheme)  
2021-22

M.Sc. - I SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 1	M1BT-CT01	Instrumentation and Analytical Techniques	4	60	40	100
2	Core Course 2	M1BT-CT02	Fundamentals of Microbiology	4	60	40	100
3	Core Course 3	M1BT-CT03	Cell Biology and Molecular Genetics	4	60	40	100
4	Core Course 4	M1BT-CT04	Biochemistry	4	60	40	100
5	Core Course Practical 1	M1BT-CP01	Core Practical-1	4	60	40	100
6	Core Course Practical 2	M1BT-CP02	Core Practical-2	4	60	40	100
Total				24	120	80	200

M.Sc. - II SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 5	M2BT-CT05	Genetic Engineering	4	60	40	100
2	Core Course 6	M2BT-CT06	Fermentation Technology	4	60	40	100
3	Core Course 7	M2BT-CT07	Molecular Biology	4	60	40	100
4	Core Course 8	M2BT-CT08	Bioinformatics	4	60	40	100
5	Core Course Practical 3	M2BT-CP03	Core Practical-3	4	60	40	100
6	Core Course Practical 4	M2BT-CP04	Core Practical-4	4	60	40	100
7	Skill Course 1	M2BT-SC01	Any one from the given list	4	100	0	100
Total				28	140	80	220

M.Sc. - III SEMESTER

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Core Course 9	M3BT-CT09	Plant Biotechnology	4	60	40	100
2	Core Course 10	M3BT-CT10	Animal Biotechnology	4	60	40	100
3	Discipline Specific Elective 1	M3BT-ET01	Any one from the given list	4	60	40	100
4	Discipline Specific Elective 2	M3BT-ET02	Any one from the given list	4	60	40	100
5	Core Course Practical 5	M3BT-CP05	Core Practical-5	4	60	40	100
6	Discipline Specific Elective Practical 1	M3BT-EP01	DSE Practical-1	4	100	0	100
Total				24	120	80	200

M.Sc. - IV SEMESTER (A)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	Teacher Assessment	Project/ Dissertation Report	Presentation & Viva-Voce	Total Marks
1	Training	M4BT-TP01	Major Research Project	26	200	250	200	650

M.Sc. - IV SEMESTER (B)

S.No.	Type of Course	Paper Code	COURSE NAME	Credits	End Term Exam	Teacher Assessment	Total Marks
1	Minor Project	M4BT-PP02	Minor Research Project	14	200	150	350
2	Discipline Specific Elective 3	M4BT-ET03	Any one from the given list	4	60	40	100
3	Discipline Specific Elective 4	M4BT-ET04	Any one from the given list	4	60	40	100
4	Discipline Specific Elective Practical 2	M4BT-EP02	DSE Practical-2	4	60	40	100
Total				26	100	40	100

Course code	Core Course
M1BT-CT01	Instrumentation and Analytical Techniques
M1BT-CT02	Fundamentals of Microbiology
M1BT-CT03	Cell Biology and Molecular Genetics
M1BT-CT04	Biochemistry
M2BT-CT05	Genetic Engineering
M2BT-CT06	Fermentation Technology
M2BT-CT07	Molecular Biology
M2BT-CT08	Bioinformatics
M3BT-CT09	Plant Biotechnology
M3BT-CT10	Animal Biotechnology

Course code	Skill Course
M2BT-SC01	Two Techniques of Molecular Biology
M2BT-SC02	Biostatistics

Course code	Discipline Specific Elective
M3BT-ET01	Immunology and Enzymology Biosafety, Bioethics and IPR
M3BT-ET02	Environmental Biotechnology Genomics & Proteomics
M3BT-ET03	Research Methodology Food and Dairy Biotechnology
M4BT-ET04	Advanced Biotechnology Medical and Pharmaceutical



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Department of Life Science  
(Biochemistry)

Syllabus & Detailed Scheme

of

M.Sc. Biochemistry (2 years)

{2021-2022}

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



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Mewar University, Chittorgarh  
Year: 2021-22  
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)



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**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
2	Discipline Specific Elective 2		M3BC-ET02		Any One
3	Discipline Specific Elective 3	IV	M4BC-ET03	Any One	Nutritional Biochemistry
4	Discipline Specific Elective 4		M4BC-ET04		Any One
					Research Methodology
					Secondary Metabolites and Metabolic Engineering
					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)	



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

M.Sc. Biochemistry  
I Semester  
Session 2021-22 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
<b>Total</b>				<b>24</b>

Note:  
CC - Core Course  
PR - Practical



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

M.Sc. Biochemistry  
II Semester  
Session 2021-22 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



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

M.Sc. Biochemistry  
III Semester  
Session 2021-22 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



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

M.Sc. Biochemistry  
IV Semester  
Session 2021-22 onwards

Choice of A or B			
A.			
S. No.	Paper Code	CC/DSE/ SEC	Title
1	M4BC-PJ01	Training	Major Research Project (Research Work/Training)
			Credit 26
B.			
1	M4BC-PJ02	Minor Project	Minor Research Project
2	M4BC-ET03	DSE3	Research Methodology
3	M4BC-ET04	DSE4	Secondary Metabolites and Metabolic Engineering
4	M3BG-EP02	DSE2 PR	Molecular Medicine
			Genomics & Proteomics
			DSE Practical-2
	Total		
			4
			4
			4
			4
			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



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**Department of Life Science  
(Microbiology)**

**Syllabus & Detailed Scheme**

**of**

**B.Sc. (Hons.) Microbiology (3 years)**

**{2021-2022}**



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





**Mewar University, Chittorgarh**  
**Year: 2021-22**  
**PG Course-B.Sc. (Hons.) Microbiology**

**Core Course Theory**

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Core Course 1	I	B1MB-CT01	Biochemistry
2	Core Course 2	I	B1MB-CT02	Cell Biology
3	Core Course 3	II	B2MB-CT03	Bacteriology
4	Core Course 4	II	B2MB-CT04	Microbial Physiology and Metabolism
5	Core Course 5	III	B3MB-CT05	Virology
6	Core Course 6	III	B3MB-CT06	Instrumentation and Biotechniques
7	Core Course 7	III	B3MB-CT07	Molecular Biology
8	Core Course 8	IV	B4MB-CT08	Microbial Genetics
9	Core Course 9	IV	B4MB-CT09	Environmental Microbiology
10	Core Course 10	IV	B4MB-CT10	Food and Dairy Microbiology
11	Core Course 11	V	B5MB-CT11	Industrial Microbiology
12	Core Course 12	V	B5MB-CT12	Immunology
13	Core Course 13	VI	B6MB-CT13	Medical Microbiology
14	Core Course 14	VI	B6MB-CT14	Recombinant DNA Technology

**Core Course Practical**

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Core Course Practical 1	I	B1MB-CP01	Biochemistry Lab
2	Core Course Practical 2	I	B1MB-CP02	Cell Biology Lab
3	Core Course Practical 3	II	B2MB-CP03	Bacteriology Lab
4	Core Course Practical 4	II	B2MB-CP04	Microbial Physiology and Metabolism Lab
5	Core Course Practical 5	III	B3MB-CP05	Virology Lab
6	Core Course Practical 6	III	B3MB-CP06	Instrumentation and Biotechniques Lab
7	Core Course Practical 7	III	B3MB-CP07	Molecular Biology Lab
8	Core Course Practical 8	IV	B4MB-CP08	Microbial Genetics Lab
9	Core Course Practical 9	IV	B4MB-CP09	Environmental Microbiology Lab
10	Core Course Practical 10	IV	B4MB-CP10	Food and Dairy Microbiology Lab
11	Core Course Practical 11	V	B5MB-CP11	Industrial Microbiology Lab
12	Core Course Practical 12	V	B5MB-CP12	Immunology Lab
13	Core Course Practical 13	VI	B6MB-CP13	Medical Microbiology Lab
14	Core Course Practical 14	VI	B6MB-CP14	Recombinant DNA Technology Lab



**Generic Elective (Any one per semester in semester I-IV)**

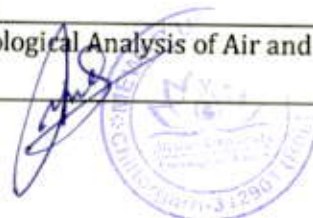
Sr. No.	Type of Course	Semester	Course code	Any one per semester in semesters I-IV	Title of the Course
1	Generic Elective	I	B1MB-GET01		Introduction and Scope of Microbiology
					Biomathematics and Biostatistics
2		II	B2MB-GET02		Microbial Metabolism
					Industrial and Food Microbiology
3		III	B3MB-GET03		Microbes in Environment
					Medical Microbiology and Immunology
4		IV	B4MB-GET04		Genetic Engineering and Biotechnology
				Microbial Genetics and Molecular Biology	

**Generic Elective Practical (Any one per semester in semester I-IV)**

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Generic Elective Practical 1	I	B1MB-GEP01	Based on Choice of GE
2	Generic Elective Practical 2	II	B2MB-GEP02	Based on Choice of GE
3	Generic Elective Practical 3	III	B3MB-GEP03	Based on Choice of GE
4	Generic Elective Practical 4	IV	B4MB-GEP04	Based on Choice of GE

**Skill Enhancement Course Elective (Any one per semester in semesters III & IV)**

Sr. No.	Type of Course	Semester	Course code	Any one per semester in semesters III & IV	Title of the Course
1	Skill Enhancement Course	III	B3MB-SEC01		Microbial Quality Control in Food and Pharmaceutical Industries
					Microbial Diagnosis in Health Clinics
2		IV	B4MB-SEC02		Biofertilizers and Biopesticides
					Food Fermentation Techniques
					Management of Human Microbial Diseases
				Microbiological Analysis of Air and Water	



**Ability Enhancement Compulsory Course (Any one per semester in semesters I & II)**

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Ability Enhancement Compulsory Course	I	B1MB-AEC01	Any one per semester in semesters I & II	English
2		II	B2MB-AEC02		Environmental Science

**Discipline Specific Elective Theory (Any two per semester in semesters V & VI)**

Sr. No.	Type of Course	Semester	Course code	Title of the Course	
1	Discipline Specific Elective 1	V	B5MB-DET01	Any two per semester in semesters V & VI	Bioinformatics
2	Discipline Specific Elective 2		B5MB-DET02		Microbial Biotechnology
3	Discipline Specific Elective 3	VI	B6MB-DET03		Advances in Microbiology
					Plant Pathology
4	Discipline Specific Elective 4		B6MB-DET04		Inheritance Biology
					Microbes in Sustainable Agriculture and Development
					Biosafety and Intellectual Property Rights
					Project Work

**Discipline Specific Elective Practical (Any two per semester in semesters V & VI)**

Sr. No.	Type of Course	Semester	Course code	Title of the Course
1	Discipline Specific Elective Practical 1	V	B5MB-DEP01	Based on Choice of DSE
2	Discipline Specific Elective Practical 2		B5MB-DEP02	Based on Choice of DSE
3	Discipline Specific Elective Practical 3	VI	B5MB-DEP03	Based on Choice of DSE
4	Discipline Specific Elective Practical 4		B5MB-DEP4	Based on Choice of DSE

**B.Sc. (Hons.) Microbiology**  
**I Semester**  
**Session 2021-22 onwards**

The examination shall consist of -

- Two core papers and two core practical
- One general elective paper and one general elective paper practical
- One ability enhancement compulsory course paper

Sr. No.	Paper Code	CC/DSE/SEC	Title	Credit
1	B1MB-CT01	CC1	Biochemistry	4
2	B1MB-CT02	CC2	Cell Biology	4
3	B1MB-GET01	GE1	<b>Chose Any One</b> Introduction and Scope of Microbiology Biomathematics and Biostatistics Microbial Metabolism Industrial and Food Microbiology Microbes in Environment Medical Microbiology and Immunology Genetic Engineering and Biotechnology Microbial Genetics and Molecular Biology	4
4	B1MB-AEC01	AECC1	<b>Chose Any One</b> English Environmental Science	2
5	B1MB-CP01	CC1-PR	Core Practical-1	2
6	B1MB-CP02	CC2-PR	Core Practical-2	2
7	B1MB-GEP01	GE1-PR	General Elective Practical-1	2
<b>Total</b>				<b>20</b>

**Note:**

CC - Core Course

GE-General Elective

AECC- Ability Enhancement Compulsory Course

PR- Practical

Students will opt any Ability Enhancement Compulsory Course (AECC) out of 2 given options

Students will opt any one General Elective (GE) out of 8 given options



**B.Sc. (Hons.) Microbiology**  
**II Semester**  
**Session 2021-22 onwards**

The examination shall consist of -

- Two core papers and two core practical
- One general elective paper and one general elective paper practical
- One ability enhancement compulsory course paper

Sr. No.	Paper Code	CC/DSE/SEC	Title	Credit									
1	B2MB-CT03	CC3	Bacteriology	4									
2	B2MB-CT04	CC4	Microbial Physiology and Metabolism	4									
3	B2MB-GET02	GE2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="8" style="text-align: center; vertical-align: middle;"><b>Chose Any One</b></td> <td>Introduction and Scope of Microbiology</td> </tr> <tr> <td>Biomathematics and Biostatistics</td> </tr> <tr> <td>Microbial Metabolism</td> </tr> <tr> <td>Industrial and Food Microbiology</td> </tr> <tr> <td>Microbes in Environment</td> </tr> <tr> <td>Medical Microbiology and Immunology</td> </tr> <tr> <td>Genetic Engineering and Biotechnology</td> </tr> <tr> <td>Microbial Genetics and Molecular Biology</td> </tr> </table>	<b>Chose Any One</b>	Introduction and Scope of Microbiology	Biomathematics and Biostatistics	Microbial Metabolism	Industrial and Food Microbiology	Microbes in Environment	Medical Microbiology and Immunology	Genetic Engineering and Biotechnology	Microbial Genetics and Molecular Biology	4
<b>Chose Any One</b>	Introduction and Scope of Microbiology												
	Biomathematics and Biostatistics												
	Microbial Metabolism												
	Industrial and Food Microbiology												
	Microbes in Environment												
	Medical Microbiology and Immunology												
	Genetic Engineering and Biotechnology												
	Microbial Genetics and Molecular Biology												
4	B2MB-AEC02	AECC2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;"><b>Chose Any One</b></td> <td>English</td> </tr> <tr> <td>Environmental Science</td> </tr> </table>	<b>Chose Any One</b>	English	Environmental Science	2						
<b>Chose Any One</b>	English												
	Environmental Science												
5	B2MB-CP03	CC3-PR	Core Practical-3	2									
6	B2MB-CP04	CC4-PR	Core Practical-4	2									
7	B2MB-GEP02	GE2-PR	General Elective Practical-2	2									
<b>Total</b>				<b>20</b>									

**Note:**

CC - Core Course

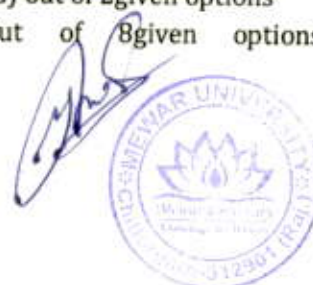
GE-General Elective

AECC- Ability Enhancement Compulsory Course

PR- Practical

Students will opt any Ability Enhancement Compulsory Course (AECC) out of 2 given options

Students will opt any one General Elective (GE) out of 2 given options



**B.Sc. (Hons.) Microbiology**  
**III Semester**  
**Session 2021-22 onwards**

The examination shall consist of -

- Three core papers and three core practical
- One general elective paper and one general elective paper practical
- One skill enhancement course paper

Sr. No.	Paper Code	CC/DSE/ SEC	Title		Credit
1	B3MB-CT05	CC5	Virology		4
2	B3MB-CT06	CC6	Instrumentation and Biotechniques		4
3	B3MB-CT07	CC7	Molecular Biology		4
4	B3MB-GET03	GE3	<b>Chose Any One</b>	Introduction and Scope of Microbiology	4
				Biomathematics and Biostatistics	
				Microbial Metabolism	
				Industrial and Food Microbiology	
				Microbes in Environment	
				Medical Microbiology and Immunology	
				Genetic Engineering and Biotechnology	
				Microbial Genetics and Molecular Biology	
5	B3MB-SEC01	SEC1	<b>Chose Any One</b>	Microbial Quality Control in Food and Pharmaceutical Industries	2
				Microbial Diagnosis in Health Clinics	
				Biofertilizers and Biopesticides	
				Food Fermentation Techniques	
				Management of Human Microbial Diseases	
				Microbiological Analysis of Air and Water	
6	B3MB-CP05	CC5-PR	Core Practical-5		2
7	B3MB-CP06	CC6-PR	Core Practical-6		2
8	B3MB-CP07	CC7-PR	Core Practical-7		2
9	B3MB-GEP03	GE3-PR	General Elective Practical-3		2
<b>Total</b>					<b>26</b>

**Note:**

CC - Core Course

GE-General Elective

SEC- Skill Enhancement Course

PR- Practical

Students will opt any one General Elective (GE) out of 8 given options

Students will opt any one Skill Enhancement Course (SEC) out of 6 given options



**B.Sc. (Hons.) Microbiology**  
**IV Semester**  
**Session 2021-22 onwards**

The examination shall consist of –

- Three core papers and three core practical
- One general elective paper and one general elective paper practical
- One skill enhancement course paper

Sr. No.	Paper Code	CC/DSE/ SEC	Title		Credit
1	B4MB-CT08	CC8	Microbial Genetics		4
2	B4MB-CT09	CC9	Environmental Microbiology		4
3	B4MB-CT10	CC10	Food and Dairy Microbiology		4
4	B4MB-GET04	GE4	<b>Chose Any One</b>	Introduction and Scope of Microbiology	4
				Biomathematics and Biostatistics	
				Microbial Metabolism	
				Industrial and Food Microbiology	
				Microbes in Environment	
				Medical Microbiology and Immunology	
				Genetic Engineering and Biotechnology	
				Microbial Genetics and Molecular Biology	
5	B4MB-SEC02	SEC2	<b>Chose Any One</b>	Microbial Quality Control in Food and Pharmaceutical Industries	2
				Microbial Diagnosis in Health Clinics	
				Biofertilizers and Biopesticides	
				Food Fermentation Techniques	
				Management of Human Microbial Diseases	
				Microbiological Analysis of Air and Water	
6	B4MB-CP08	CC8-PR	Core Practical-8		2
7	B4MB-CP09	CC8-PR	Core Practical-9		2
8	B4MB-CP10	CC10-PR	Core Practical-10		2
9	B4MB-GEP04	GE4-PR	General Elective Practical-4		2
<b>Total</b>					<b>26</b>

**Note:**

CC - Core Course

GE-General Elective

SEC- Skill Enhancement Course

PR- Practical

Students will opt any one General Elective (GE) out of 8 given options

Students will opt any one Skill Enhancement Course (SEC) out of 6 given options



**B.Sc. (Hons.) Microbiology**  
**V Semester**  
**Session 2021-22 onwards**

The examination shall consist of –

- Two core papers and two core practical
- Two discipline specific elective papers and two discipline specific elective paper practical

Sr. No.	Paper Code	CC/DSE/SEC	Title	Credit
1	B5MB-CT11	CC11	Industrial Microbiology	4
2	B5MB-CT12	CC12	Immunology	4
4	B5MB-DET01	DSE1	Bioinformatics	4
			Microbial Biotechnology	
			Advances in Microbiology	
			Plant Pathology	
5	B5MB-DET02	DSE2	Inheritance Biology	4
			Microbes in Sustainable Agriculture and Development	
			Biosafety and Intellectual Property Rights	
			Project Work	
6	B5MB-CP11	CC11-PR	Core Practical-11	2
7	B5MB-CP12	CC12-PR	Core Practical-12	2
8	B5MB-DEP01	DSE1-PR	DSE Practical-1	2
9	B5MB-DEP02	DSE2-PR	DSE Practical-2	2
<b>Total</b>				<b>24</b>

**Note:**

CC - Core Course

DSE- Discipline Specific Elective

PR- Practical

Students will opt any two Discipline Specific Elective (DSE) out of 8 given options





**B.Sc. (Hons.) Microbiology**  
**VI Semester**  
**Session 2021-22 onwards**

The examination shall consist of -

- Two core papers and two core practical
- Two discipline specific elective papers and two discipline specific elective paper practical

Sr. No.	Paper Code	CC/DSE/SEC	Title	Credit
1	B6MB-CT13	CC13	Medical Microbiology	4
2	B6MB-CT14	CC14	Recombinant DNA Technology	4
4	B6MB-DET03	DSE3	Bioinformatics	4
			Microbial Biotechnology	
			Advances in Microbiology	
			Plant Pathology	
5	B6MB-DET04	DSE4	Inheritance Biology	4
			Microbes in Sustainable Agriculture and Development	
			Biosafety and Intellectual Property Rights	
			Project Work	
6	B6MB-CP13	CC13-PR	Core Practical-13	2
7	B6MB-CP14	CC14-PR	Core Practical-14	2
8	B6MB-DEP03	DSE3-PR	DSE Practical-3	2
9	B6MB-DEP04	DSE4-PR	DSE Practical-4	2
<b>Total</b>				<b>24</b>

**Note:**

CC - Core Course

DSE- Discipline Specific Elective

PR- Practical

Students will opt any two Discipline Specific Elective (DSE) out of 8 given options

