

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,  
CHHATRAPATI SAMBHAJINAGAR.**



**Circular No./Acad-SU/UG/NEP-2020/Course Structure/78/2024.**

It is hereby inform to all concerned that on the recommendation of Board of Dean's the Academic Council at it's meeting held on **08 April, 2024 has accepted the "Revised Course Structure" for University Campus, Sub-Campus & all Afiliated Colleges at (Three/Four Years Honrs & Honars with Research) Degree Programme Under Graduate Level as Per Guidelines of National Education Policy-2020, as per Government letter dated 13 march, 2024 for all the Faculties.**

This is effective from the **Academic Year 2024-2025** and Onwads as appended herewith.

This Circular is also available on the University Website [www.bamu.ac.in](http://www.bamu.ac.in)

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,  
Chhatrapati Sambhajinagar.-431004.  
Ref.No.SU/UG/Course Structure/NEP/  
AC.AOB.I.04/2024/ 26106-19

Date:- 26-04-2024.

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**Deputy Registrar,**  
**Academic Section**

**Copy forwarded with compliments to :-**

- 1] The Head /Director, all Concerned University Campus & Sub-Centere, Dharashiv, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 2] The Principals All affiliated Colleges, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 3] The Director of Recognized Institutions, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 4] The Director, Board of Examinations & Evaluation, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 5] The Librarian, University Library, Dr. Babasaheb Ambedkar Marathwada University,
- 6] The Director, University Network & Information Centre, UNIC, with a request to upload the Circular along with its enclosures on University Website.
- 7] The Public Relation Officer,
- 8] The Deputy Registrar, Post Graduate Section,
- 9] The In-charge, [E-Suvidha Kendra],
- 10] The Record Keeper,

**Copy for information to :-**

- 1] All Heads of Section, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 2] The P.A. to the Vice-Chancellor, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 3] The P.A. to the Pro. Vice-Chancellor, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 4] The P.A. to the Registrar, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.

(F)

**Dr. Babasaheb Ambedkar Marathwada University  
Chhatrapati Sambhajnagar- 431001**



**Three Years B.A./ B. Com. / B.Sc.  
Four Years B.A./ B. Com. / B.Sc. ( Hons)  
And  
Four Years B.A./ B. Com. / B.Sc.  
( Hons with Research)  
Degree Programme**

# **Course Structure**

**(Revised)**

**( AS PER NEP-2020)**

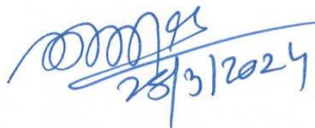
**Subject: .....**

**Effective from 2024-25**

  
28/03/2024





  
28/3/2024



**Illustrative credit distribution Structure for B.A. /B.Com./ B. Sc. (Three / Four Years Honours / Honours with Research) Degree Programme with Multiple Entry and Exit Options**

**B.A./B.Com./B.Sc. First Year (1st and 2<sup>nd</sup> Semester)**

Sr. No.	Course Type	First Semester		Total Credits	Second Semester		Total Credits
		Course Code	Credits		Course Code	Credits	
1	<b>Major 1 ( Core) M1</b> Mandatory	DSC-1	4	12	DSC-4	4	12
	<b>Major 2 ( Core) M2</b> Mandatory	DSC-2	4		DSC-5	4	
	<b>Major 3 ( Core) M3</b> Mandatory	DSC-3	4		DSC-6	4	
2	<b>Major Electives</b> (Choose any one from pool of courses)	---	---	---	---	---	---
3	<b>Minor</b> (Choose any one from pool of courses) <b>It is from different discipline of the same faculty</b>	---	---	---	---	---	---
4	<b>GE/OE</b> (Generic / Open Elective ) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-1	2	2	GE/OE-2	2	2
5	<b>VSC</b> ( Vocational Skill Courses) (Choose any one from pool of courses)	----	---	2	VSC-1	2	2
6	<b>SEC</b> ( Skill Enhancement Courses) (Choose any one from pool of courses)	SEC-1	2		----	----	
7	<b>AEC</b> (Ability Enhancement Courses ) <b>(Common for all faculty)</b>	AEC-1 (English)	2	4	AEC-2 ( English)	2	4
8	<b>VEC</b> (Value Education Courses) <b>(Common for all faculty)</b>	-----	---		VEC-1 ( Constitution of India)	2	
9	<b>IKS</b> (Indian Knowledge System) Courses <b>(Common for all faculty)</b>	IKS-1	2		---	---	
10	<b>OJT</b> (On Job Training)	-----	---	2	---	---	2
11	<b>FP</b> (Field Project )	-----	---		---	---	
12	<b>CEP</b> (Community Engagement Project) <b>(Common for all faculty)</b>	----	---		---	---	
13	<b>CC</b> (Co-curricular Courses) <b>(Common for all faculty)</b>	CC-1 (Health and Wellness)	2		CC-2 (Yoga education / Sports & Fitness)	2	
14	<b>RM</b> (Research Methodology) Course	----	---				
15	<b>RP</b> (Research Project )	-----	---				
				<b>22</b>			<b>22</b>
<p align="center"><b>Exit Option : Award of UG Certificate in 3 Majors with 44 credits and an additional 4 credits of core NSQF course / Internship OR continue with Major and Minor</b></p>							

Students will have to choose any three subjects as a **Major 1, Major 2, Major 3**, from Basket 1 under the respective faculty.

Students will be having three subject options of equal credits (instead of Major and / or minor verticals) in the first year. Students will have to select / declare choice of one subject **as a major subject** in the beginning of second year **out of three major options M1, M2 and M3 (which were opted in the first year).**

### **Courses to be designed for the students from other faculty**

#### **1) Generic /Open Elective Courses for other faculty**

GE/OE-1 : This is a 2 credit theory course to be designed for other faculty

GE/OE-2 : This is a 2 credit theory course to be designed for other faculty

#### **Detailed Illustration of Courses included in 1<sup>st</sup> and 2<sup>nd</sup> semester:**

1) **Major 1** (Core) subject are mandatory.

DSC-1 : This is a 4 credit theory course ) OR 2 credit theory and 2 credit practical course corresponding to Major 1 ( core) subject

2) **Major 2** (Core) subject are mandatory.

DSC-2 : This is a 4 credit theory course ) OR 2 credit theory and 2 credit practical course corresponding to Major 2 ( core) subject

3) **Major 3** (Core) subject are mandatory.

DSC-3 : This is a 4 credit theory course ) OR 2 credit theory and 2 credit practical course corresponding to Major 3 ( core) subject

4) **Generic / Open Elective (GE/OE):** (Needs to be chosen (any one) from pool of courses available at respective college). **These courses should be chosen compulsorily from faculty other than that of Major.**

GE/OE -1 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

GE/OE -2 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

5) **SEC** (Skill Enhancement Courses) : Choose any one from pool of courses. These courses needs to be designed to enhance the technical skills of the students in specific area.

**SEC-1** : This is a 2 credit theory / practical course to enhance the technical skills of the students in specific area.

- 6) **VSC (Vocational Skill Courses)** : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.

**VSC-1** : This is a 2 credit theory / practical course based Hands on Training corresponding to Major ( core) subject.

- 7) **AEC (Ability Enhancement courses)**: The focus of these courses should be based on linguistic and communication skills. It will be common for all the faculty.

**AEC-1 : English**

This is a 2 credit theory course based on linguistic proficiency. It will be common for all the faculty.

**AEC-2 : English**

This is a 2 credit theory course based on linguistic proficiency. It will be common for all the faculty.

- 8) **IKS (Indian Knowledge System)** : The courses related to traditional and ancient culture of India will be included in this section. The respective college will have to choose one of the courses from the pool of courses designed by the University.

**IKS-1 : To be chosen from the pool of courses designed by the University**

This is a 2 credit theory course based on Indian Knowledge System. It will be common for all the faculty

- 9) **VEC (Value Education Courses)**: The courses such as understanding India, Environmental Science / Education, Digital and Technological solutions etc will be part of Value Education Courses. It will be common for all the faculty.

**VEC-1 : Constitution of India**

This is a 2 credit theory course based on value education. It will be common for all the faculty

- 10) **CC (Curricular Courses)**: The courses such as Health and wellness, Yoga education, Sports and Fitness, Cultural activities, NSS/NCC, Performing Arts. In the first semester it will be Health and wellness and will be common for all the faculty.

**CC-1 : Health and Wellness**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**CC-2 : Yoga education / Sports and Fitness**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**B.A./B.Com./B.Sc. Second Year ( 3<sup>rd</sup> and 4<sup>th</sup> Semester )**

Sr. No.	Course Type	Third Semester		Total Credits	Fourth Semester		Total Credits
		Course Code	Credits		Course Code	Credits	
1	<b>Major ( Core )</b> Mandatory (Student will be choosing one subject as a major out of 3 major subjects and one subject as a minor)	DSC-7	4	8	DSC-9	4	8
		DSC-8	4		DSC-10	4	
2	<b>Major Electives</b> (Choose any one from pool of courses)	---	---	---	---	---	---
3	<b>Minor</b> (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>	M-1	2	4	M-3	2	4
		M-2	2		M-4	2	
4	<b>GE/OE</b> (Generic / Open Elective ) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-3	2	2	GE/OE-4	2	2
5	<b>VSC</b> ( Vocational Skill Courses ) (Choose any one from pool of courses)	VSC-2	2	2	---	---	2
6	<b>SEC</b> ( Skill Enhancement Courses ) (Choose any one from pool of courses)	----	---		SEC-2	2	
7	<b>AEC</b> (Ability Enhancement Courses ) <b>(Choose any one from pool of language courses)</b>	AEC-3*	2	4	AEC-4*	2	2
8	<b>VEC</b> (Value Education Courses) <b>(Common for all faculty)</b>	VEC-2 Environmental Studies	2		----	---	
9	<b>IKS</b> (Indian Knowledge System) Courses <b>(Common for all faculty)</b>	----	---		---	---	
10	<b>OJT</b> (On Job Training)	----	---	2	---	---	4
11	<b>FP</b> (Field Project )	----	---		---	---	
12	<b>CEP</b> (Community Engagement Project) <b>(Common for all faculty)</b>	----	---		FP-1	2	
13	<b>CC</b> (Co-curricular Courses) <b>(Common for all faculty)</b>	CC-3	2		CC-4	2	
14	<b>RM</b> (Research Methodology) Course	----	---		----	---	
15	<b>RP</b> (Research Project )	-----	---	----	---		
				22			22
<b>Exit Option : Award of UG Diploma in Major and Minor with 88 credits and an additional 4 credits of core NSQF course / Internship OR continue with Major and Minor</b>							

\*AEC-3 and AEC-4 : Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu



## **Courses to be designed for other Discipline / faculty**

### **1) Minor Courses for other Discipline**

Mn-1 : This is a 2 credit theory course to be designed for other discipline

Mn-2 : This is a 2 credit theory course to be designed for other discipline

Mn-3 : This is a 2 credit theory course to be designed for other discipline

Mn-4 : This is a 2 credit theory course to be designed for other discipline

### **2) Generic /Open Elective Courses for other faculty**

GE/OE-5 : This is a 2 credit theory course to be designed for other faculty

GE/OE-6 : This is a 2 credit theory course to be designed for other faculty

## **Detailed Illustration of Courses included in 3<sup>rd</sup> and 4<sup>th</sup> semester:**

### **1) Major (Core) subject are mandatory.**

DSC-7 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-8 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-9 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-10 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

### **2) Minor : (Choose any two from pool of courses) It is from different discipline of the same faculty**

Mn-1 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-2 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-3 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-4 : This is a 2 credit course to be chosen from other discipline of the same faculty

### **3) Generic / Open Elective (GE/OE): (Needs to be chosen (any one) from pool of courses available at respective college). These courses should be chosen compulsorily from faculty other than that of Major.**

GE/OE -3 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

GE/OE -4 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

### **4) VSC (Vocational Skill Courses) : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.**

**VSC-2** : This is a 2 credit theory / practical course based Hands on Training corresponding to Major ( core) subject.

- 5) **SEC** (Skill Enhancement Courses) : Choose any one from pool of courses. These courses needs to be designed to enhance the technical skills of the students in specific area.

**SEC-2** : This is a 2 credit theory / practical course to enhance the technical skills of the students in specific area.

- 6) **AEC** (Ability Enhancement courses): The focus of these courses should be based on linguistic and communication skills. It will be common for all the faculty.

**AEC-3 : Modern Indian Language MIL-1** (Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu)

This is a 2 credit theory course based on linguistic proficiency. Students will have to choose one of the above mentioned language.

**AEC 4 : Modern Indian Language MIL-2** (Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu)

This is a 2 credit theory course based on linguistic proficiency. Students will have to choose one of the above mentioned language.

- 7) **VEC-2 - Environmental Studies**

This is a 2 credit theory course. It will be common for all the faculty.

- 8) **FP-1 : Field Project** : This is a 2 credit course, should be corresponding to Major ( core) subject

- 9) **CC** (Curricular Courses): The courses such as Health and wellness, Yoga education, Sports and Fitness, Cultural activities, NSS/NCC, Performing Arts.

**CC-3 : Cultural Activity / NSS, NCC**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**CC-4 : Fine/ Applied/ Visual/ Performing Arts**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty



**B.A./B.Com./B.Sc. Third Year ( 5<sup>th</sup> and 6<sup>th</sup> Semester )**

Sr. No.	Course Type	Fifth Semester		Total Credits	Sixth Semester		Total Credits
		Course Code	Credits		Course Code	Credits	
1	<b>Major ( Core)</b> Mandatory	DSC-11	4	8	DSC-13	4	10
		DSC-12	4		DSC-14	4	
2	<b>Major Electives</b> (Choose any two from pool of courses)	DSE-1	2	4	DSC-15	2	4
		DSE-2	2		DSE-3	2	
3	<b>Minor</b> (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>	M-5	2	4	DSE-4	2	4
		M-6	2		M-7	2	
4	<b>GE/OE</b> (Generic / Open Elective ) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	---	---	---	---	---	---
5	<b>VSC</b> ( Vocational Skill Courses) (Choose any one from pool of courses)	VSC-3	2	4	---	---	---
		VSC-4	2		---	---	
6	<b>SEC</b> ( Skill Enhancement Courses) (Choose any one from pool of courses)	----	---	---	---	---	---
7	<b>AEC</b> (Ability Enhancement Courses ) <b>(Common for all faculty)</b>	----	---	---	---	---	---
8	<b>VEC</b> (Value Education Courses) <b>(Common for all faculty)</b>	----	---	---	---	---	---
9	<b>IKS</b> (Indian Knowledge System) Courses <b>(Common for all faculty)</b>	----	---	---	---	---	---
10	<b>OJT</b> (On Job Training)	----	---	2  ( FP-2 / CEP-2)	OJT-1	4	4
11	<b>FP</b> (Field Project )	FP-2	2		---	---	
12	<b>CEP</b> (Community Engagement Project) <b>(Common for all faculty)</b>	CEP-2	2		----	----	
13	<b>CC</b> (Co-curricular Courses) <b>(Common for all faculty)</b>	----	---		----	----	
14	<b>RM</b> (Research Methodology) Course	----	---		----	----	
15	<b>RP</b> (Research Project )	-----	---	----	----		
				<b>22</b>			<b>22</b>
<b>Exit Option : Award of UG Degree in Major with 132 credits OR continue with Major and Minor</b>							

## **Courses to be designed for other Discipline / faculty**

### **1) Minor Courses for other Discipline**

Mn-5 : This is a 2 credit theory course to be designed for other discipline

Mn-6 : This is a 2 credit theory course to be designed for other discipline

Mn-7 : This is a 2 credit theory course to be designed for other discipline

Mn-8 : This is a 2 credit theory course to be designed for other discipline

### **Detailed Illustration of Courses included in 5<sup>th</sup> and 6<sup>th</sup> semester:**

#### **1) Major (Core) subject are mandatory.**

DSC-11 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-12 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-13 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-14: This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-15: This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

#### **2) Major Electives (Choose any two from pool of courses in respective semester )**

DSE-1 : This is a 2 credit course corresponding to Major (elective) subject

DSE-2 : This is a 2 credit course corresponding to Major (elective) subject

DSE-3 : This is a 2 credit course corresponding to Major (elective) subject

DSE-4 : This is a 2 credit course corresponding to Major (elective) subject

#### **3) Minor : (Choose any two from pool of courses) It is from different discipline of the same faculty**

Mn-5 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-6 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-7 : This is a 2 credit course to be chosen from other discipline of the same faculty

Mn-8 : This is a 2 credit course to be chosen from other discipline of the same faculty

#### **4) VSC (Vocational Skill Courses) : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.**

**VSC-3** : This is a 2 credit course based Hands on Training corresponding to Major ( core) subject.

**VSC-4** : This is a 2 credit course based Hands on Training corresponding to Major ( core) subject.



- 5) **FP-2 : Field Project** : This is a 2 credit course, should be corresponding to Major (core) subject
- 6) **CEP-2** : Community engagement and service : This is a 2 credit course related to community engagement and service
- 7) **OJT-1** : This is a 4 credit course related to On job Training

**B.A./B.Com./B.Sc. Fourth Year : UG Honours Degree  
( 7<sup>th</sup> and 8<sup>th</sup> Semester )**

Sr. No.	Course Type	Seventh Semester		Total Credits	Eighth Semester		Total Credits
		Course Code	Credits		Course Code	Credits	
1	<b>Major ( Core ) Mandatory</b>	DSC-16	4	14	DSC-20	4	14
		DSC-17	4		DSC-21	4	
		DSC-18	4		DSC-22	4	
		DSC-19	2		DSC-23	2	
2	<b>Major Electives</b> (Choose any two from pool of courses)	DSE-5	2	4	DSE-7	2	4
		DSE-6	2		DSE-8	2	
3	<b>Minor</b> (Choose any one from pool of courses) <b>It is from different discipline of the same faculty</b>	----	--	-	---	-	---
		----	-		---	-	
4	<b>GE/OE</b> (Generic / Open Elective ) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	---	---	---	---	---	---
5	<b>VSC</b> ( Vocational Skill Courses ) (Choose any one from pool of courses)	----	----	----	----	----	----
		----	----		----	----	
6	<b>SEC</b> ( Skill Enhancement Courses ) (Choose any one from pool of courses)	----	---	----	---	----	---
7	<b>AEC</b> (Ability Enhancement Courses ) <b>(Common for all faculty)</b>	----	---	----	---	----	---
8	<b>VEC</b> (Value Education Courses) <b>(Common for all faculty)</b>	----	---	----	---	----	---
9	<b>IKS</b> (Indian Knowledge System) Courses <b>(Common for all faculty)</b>	----	---	----	---	----	---
10	<b>OJT</b> (On Job Training)	----	---	4	OJT-2	4	4
11	<b>FP</b> (Field Project )	----	-		---	---	
12	<b>CEP</b> (Community Engagement Project) <b>(Common for all faculty)</b>	----	-		----	----	
13	<b>CC</b> (Co-curricular Courses) <b>(Common for all faculty)</b>	----	---		----	---	
14	<b>RM</b> (Research Methodology) Course	RM-1	4		----	----	
15	<b>RP</b> (Research Project )	-----	---	----	----		
				<b>22</b>			<b>22</b>
<b>Award of Four Year UG Honours Degree in Major and Minor with 176 credits</b>							

**Detailed Illustration of Courses included in 7<sup>th</sup> and 8<sup>th</sup> semester:**

1) **Major (Core)** subject are mandatory.

DSC-16 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-17 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-18 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-19 : This is a 2 credit course corresponding to Major (core) subject

DSC-20 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-21 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-22 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-23 : This is a 2 credit course corresponding to Major ( core) subject

2) **Major Electives** (Choose any two from pool of courses)

DSE-5 : This is a 2 credit course corresponding to Major (elective) subject

DSE-6 : This is a 2 credit course corresponding to Major (elective) subject

DSE-7 : This is a 2 credit course corresponding to Major (elective) subject

DSE-8 : This is a 2 credit course corresponding to Major (elective) subject

3) **Research Methodology** : RM-1 : This is a 4 credit theory course based on Research Methodology

4) **OJT-2** : This is a 4 credit course related to On job Training

**B.A./B.Com./B.Sc. Fourth Year : UG Honours with Research Degree  
( 7<sup>th</sup> and 8<sup>th</sup> Semester )**

Sr. No.	Course Type	Seventh Semester		Total Credits	Eighth Semester		Total Credits
		Course Code	Credits		Course Code	Credits	
1	<b>Major ( Core ) Mandatory</b>	DSC-16	4	10	DSC-19	4	10
		DSC-17	4		DSC-20	4	
		DSC-18	2		DSC-21	2	
2	<b>Major Electives</b> (Choose any two from pool of courses)	DSE-5	2	4	DSE-7	2	4
		DSE-6	2		DSE-8	2	
3	<b>Minor</b> (Choose any one from pool of courses) <b>It is from different discipline of the same faculty</b>	----	--	-	---	-	---
		----	-		--	-	
4	<b>GE/OE</b> (Generic / Open Elective ) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	---	---	---	---	---	---
5	<b>VSC</b> ( Vocational Skill Courses ) (Choose any one from pool of courses)	----	----	----	----	----	----
		----	----		----	----	
6	<b>SEC</b> ( Skill Enhancement Courses ) (Choose any one from pool of courses)	----	---	----	---	----	----
7	<b>AEC</b> (Ability Enhancement Courses ) <b>(Common for all faculty)</b>	----	---	----	---	----	----
8	<b>VEC</b> (Value Education Courses) <b>(Common for all faculty)</b>	----	---	----	---	----	----
9	<b>IKS</b> (Indian Knowledge System) Courses <b>(Common for all faculty)</b>	----	---	----	---	----	----
10	<b>OJT</b> (On Job Training)	----	---	8	----	---	8
11	<b>FP</b> (Field Project )	----	-		----	---	
12	<b>CEP</b> (Community Engagement Project) <b>(Common for all faculty)</b>	----	-		----	---	
13	<b>CC</b> (Co-curricular Courses) <b>(Common for all faculty)</b>	----	---		----	---	
14	<b>RM</b> (Research Methodology) Course	RM-1	4		----	---	
15	<b>RP</b> (Research Project )	RP-1	4	RP-2	8		
				<b>22</b>			<b>22</b>
<b>Award of Four Year UG Honours with Research Degree in Major and Minor with 176 credits</b>							

**Detailed Illustration of Courses included in 7<sup>th</sup> and 8<sup>th</sup> semester:**

1) **Major (Core)** subject are mandatory.

DSC-16 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-17 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-18 : This is a 2 credit course corresponding to Major ( core) subject

DSC-19: This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major (core) subject

DSC-20 : This is a 4 credit theory course OR 2 credit theory and 2 credit practical course corresponding to Major ( core) subject

DSC-21 : This is a 2 credit course corresponding to Major ( core) subject

2) **Major Electives** (Choose any two from pool of courses for each semester )

DSE-5 : This is a 2 credit course corresponding to Major (elective) subject

DSE-6 : This is a 2 credit course corresponding to Major (elective) subject

DSE-7 : This is a 2 credit course corresponding to Major (elective) subject

DSE-8 : This is a 2 credit course corresponding to Major (elective) subject

3) **Research Methodology** : RM-1 : This is a 4 credit theory course based on Research Methodology

4) **Research Project** :

RP-1 : This is a 4 credit practical course based on Research Project

RP-2: This is a 8 credit practical course based on Research Project

### **General Guidelines for Course Selection**

- 1) The Major subject is the discipline or course of main focus, bachelors degree shall be awarded in that discipline / subject.
- 2) Students will have to choose any three subjects as a Major 1, Major 2, Major 3, from **Basket 1** under the respective faculty (based on the available options in the respective college).
- 3) Students will be having three subject options of equal credits (instead of Major and / or minor verticals) in the first year.
- 4) In the beginning of second year, students will have to select / declare choice of **one major subject** and **one minor subject** from three major options M1, M2 and M3 (which were opted in the first year)
- 5) Once the students finalize their **Major Subject** and **Minor Subject** in the beginning of the second year of the programme, they shall pursue their further education in that particular subject as their **Major and Minor** subjects. Therefore, from second year onwards curriculum of the Major and Minor subjects shall be different.
- 6) Students are required to select **Minor subject** from **other discipline of the same faculty**.
- 7) Students are required to select **Generic /Open Elective** (vertical 3 in the credit framework) **compulsorily from the faculty different than that of their Major / Minor subjects**.
- 8) Vocational Skill Courses and Skill Enhancement Courses (**VSC and SEC**) shall be related to the Major subject
- 9) Curriculum of Ability Enhancement Courses (AEC), Value Education Courses (VEC), Indian Knowledge System (IKS), and Co-curricular Courses (CC) will be provided by the University separately.





**Respective BoS should draft the syllabus as per the following template**

- 1) Cover page
- 2) Preface
- 3) Structure ( First year only)
- 4) Programme Educational Objectives ( PEOs)
- 5) Programme Outcomes ( POs)
- 6) Programme Specific Outcomes ( PSOs)
- 7) Syllabus Contents of the Course / Paper

**Template of Course / Paper Contents:**

(Respective BoS is expected to use following template for syllabus of each course / paper)

<b>DSC-1 : ( Title of Paper).....</b>		
Total Credits : 02		Total Contact Hours : 30 Hrs
Maximum Marks : 50		
<b>Learning Objectives of the Course:</b>		
i) .....		
ii) .....		
iii).....		
iv) .....		
v) .....		
<b>Course Outcomes ( COs) :</b>		
After completion of the course, students will be able to -		
i) .....		
ii) .....		
iii).....		
iv) .....		
v) .....		
ModuleNo.	Topics / actual contents of the syllabus	Contact Hours
<b>I</b>		<b>10 Hrs</b>
<b>II</b>		<b>10 Hrs</b>

<b>III</b>		<b>10 Hrs</b>
<b><i>Text Books:</i></b> 1. Name Authors (as appear on the book), "Title of text Book", Vol..., Edition, Name of Publisher, Year of Publications 2. .. 3. ..		
<b><i>Reference Books:</i></b> 1. Name Authors (as appear on the book), "Title of reference Book", Vol..., Edition, Name of Publisher, Year of Publications 2. .. 3. .. 4. ..		



**Dr. Babasaheb Ambedkar Marathwada University**  
**Chhatrapati Sambhajinagar- 431001**



**B.Sc. Degree Programme**

**(Three Year / Four Years (Hons) / Four Years (Hons with Research))**


# **Course Structure**

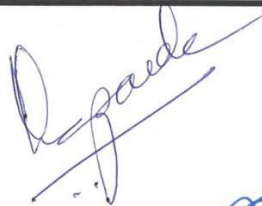
**(Revised)**

**( AS PER NEP-2020)**

**Subject (Major): .....**

**Effective from 2024-25**

  
28/03/2024



  
28/3/2024





## PREFACE

As we stand on the threshold of a new era in education, the dawn of the National Education Policy 2020 illuminates our path toward a holistic, inclusive, and progressive educational landscape. The Bachelor of Science (B. Sc.) curriculum outlined herein reflects the ethos and aspirations of this transformative policy, aiming to equip learners with the knowledge, skills, and values necessary to thrive in the dynamic world of the 21st century.

At its core, the National Education Policy 2020 envisions an educational framework that is learner-centric, multidisciplinary, and geared towards fostering creativity, critical thinking, and innovation. It emphasizes the integration of knowledge across disciplines, breaking down traditional silos to encourage holistic understanding and application of concepts. The Bachelor of Science (B. Sc.) curriculum embodies these principles by offering a diverse array of courses spanning various scientific domains, while also incorporating interdisciplinary studies to nurture well-rounded graduates capable of addressing complex challenges with agility and insight.

Furthermore, the curriculum is designed to promote experiential learning, research, and hands-on exploration, recognizing the importance of practical engagement in deepening understanding and cultivating real-world skills. Through laboratory work, field experiences, internships, and project-based learning opportunities, students will have the chance to apply theoretical knowledge in practical settings, develop problem-solving abilities, and cultivate a spirit of inquiry and discovery.

Integral to the National Education Policy 2020 is the commitment to inclusivity, equity, and access to quality education for all. The Bachelor of Science (B. Sc.) curriculum reflects this commitment by embracing diversity in perspectives, backgrounds, and experiences, and by fostering an inclusive learning environment where every student feels valued, supported, and empowered to succeed.

Moreover, the curriculum emphasizes the cultivation of ethical values, social responsibility, and global citizenship, instilling in students a sense of accountability towards society and the environment. By integrating courses on ethics, sustainability, and social sciences, the Bachelor of Science (B. Sc.) program aims to produce graduates who are not only proficient in their respective fields but also compassionate, ethical leaders committed to making a positive impact on the world.

As we embark on this journey of educational transformation guided by the National Education Policy 2020, the Bachelor of Science (B. Sc.) curriculum stands as a testament to our collective vision of a more equitable, inclusive, and enlightened society. It is our hope that through rigorous academics, innovative pedagogy, and unwavering dedication to excellence, we can inspire the next generation of scientists, scholars, and change-makers to realize their full potential and contribute meaningfully to the advancement of knowledge and the betterment of humanity.

**Structure of B. Sc. (Three / Four Years Honours / Honours with Research Degree) Programme with Multiple Entry and Exit Options**

**Subject (Major): .....**

**BSc First Year: 1<sup>st</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) M1 Mandatory	DSC-1		2		2		2+2 = 4
	DSC-2	Practical based on DSC-1		4		2	
Major ( Core) M2 Mandatory	DSC-1		2		2		2+2 = 4
	DSC-2	Practical based on DSC-1		4		2	
Major ( Core) M3 Mandatory	DSC-1		2		2		2+2 = 4
	DSC-2	Practical based on DSC-1		4		2	
Generic / Open Elective ( GE/OE) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-1	To be chosen from other faculty	2		2		2
SEC ( Skill Enhancement Courses) (Choose any one from pool of courses)	SEC-1	1) 2)	1		1		2
	SEC-2	Practicals based on SEC-1		2		1	
AEC, VEC, IKS	AEC-1	English ( Common for all the faculty)	2		2		2+2 =4
	IKS-1	Choose any one from pool of courses	2		2		
OJT/ FP/CEP/CC/RP	CC-1	Health and Wellness ( Common for all the faculty)		4		2	2
			<b>13</b>	<b>18</b>	<b>13</b>	<b>09</b>	<b>22</b>



**BSc First Year: 2<sup>nd</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) M1 Mandatory	DSC-3		2		2		2+2 = 4
	DSC-4	Practical based on DSC-3		4		2	
Major ( Core) M2 Mandatory	DSC-3		2		2		2+2 = 4
	DSC-4	Practical based on DSC-3		4		2	
Major ( Core) M3 Mandatory	DSC-3		2		2		2+2 = 4
	DSC-4	Practical based on DSC-3		4		2	
Generic / Open Elective ( GE/OE) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-2	To be chosen from other faculty	2		2		2
VSC ( Vocational Skill Courses) (Choose any one from pool of courses)	VSC-1	1) 2)	1		1		2
	VSC-2	Practicals based on VSC-1		2		1	
AEC, VEC, IKS	AEC-1	English ( Common for all the faculty)	2		2		2+2 =4
	VEC-1	Constitution of India ( Common for all the faculty)	2		2		
OJT/ FP/CEP/CC/RP	CC-2	Yoga Education / Sports and Fitness ( Common for all the faculty)		4		2	2
			<b>13</b>	<b>18</b>	<b>13</b>	<b>09</b>	<b>22</b>
<b>Exit Option : Award of UG Certificate in 3 Majors with 44 credits and an additional 4 credits of core NSQF course / Internship OR continue with Major and Minor</b>							

GE/OE-1 : This is a 2 credit theory course to be designed for other faculty

GE/OE-2 : This is a 2 credit theory course to be designed for other faculty

Students will have to choose any three subjects as a **Major 1, Major 2, Major 3**, from Basket 1 under the Faculty of Science and Technology.

Students will be having three subject options of equal credits (instead of Major and / or minor verticals) in the first year. Students will have to select / declare choice of one subject as a **major subject** in the beginning of second year **out of three major options M1, M2 and M3 (which were opted in the first year)**.

### **Detailed Illustration of Courses included in 1<sup>st</sup> and 2<sup>nd</sup> semester:**

- 1) **Major (Core)** subject are mandatory.

DSC-1 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-2 : This is a 2 credit practical course based on DSC-1

DSC-3 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-4 : This is a 2 credit practical course based on DSC-3

- 2) **Generic / Open Elective (GE/OE)**: (Needs to be chosen (any one) from pool of courses available at respective college). **These courses should be chosen compulsorily from faculty other than that of Major.**

GE/OE -1 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

GE/OE -2 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

- 3) **SEC (Skill Enhancement Courses)** : Choose any one from pool of courses. These courses needs to be designed to enhance the technical skills of the students in specific area.

SEC-1 : This is a 1 credit theory course to enhance the technical skills of the students in specific area.

SEC-2 : This is a 1 credit practical course based on SEC-1.

- 4) **VSC (Vocational Skill Courses)** : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.

VSC-1 : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

VSC-2 : This is a 1 credit practical course based on VSC-1

- 5) **AEC (Ability Enhancement courses)**: The focus of these courses should be based on linguistic and communication skills.

**AEC-1 : English**



This is a 2 credit theory course based on linguistic proficiency. It will be common for all the faculty.

**AEC-2 : English**

This is a 2 credit theory course based on linguistic proficiency. It will be common for all the faculty.

- 6) **IKS (Indian Knowledge System)** : The courses related to traditional and ancient culture of India will be included in this section. The respective college will have to choose one of the courses from the pool of courses designed by the University.

**IKS-1 : To be chosen from the pool of courses designed by the University**

This is a 2 credit theory course based on Indian Knowledge System. It will be common for all the faculty

- 7) **VEC (Value Education Courses)**: The courses such as understanding India, Environmental Science / Education, Digital and Technological solutions etc will be part of Value Education Courses.

**VEC-1 : Constitution of India**

This is a 2 credit theory course based on value education. It will be common for all the faculty

- 8) **CC (Curricular Courses)**: The courses such as Health and wellness, Yoga education, Sports and Fitness, Cultural activities, NSS/NCC, Performing Arts.

**CC-1 : Health and Wellness**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**CC-2 : Yoga education / Sports and Fitness**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty



### BSc Second Year: 3<sup>rd</sup> Semester

Students will have to select / declare choice of **one major subject** and **one minor subject** from three major options M1, M2 and M3 (which were opted in the first year)

Course Type	Course Code	Course Name	Teaching Scheme ( Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-5		2		2		2+2+2+2 = 08
	DSC-6		2		2		
	DSC-7	Practical based on DSC-5		4		2	
	DSC-8	Practical based on DSC-6		4		2	
Minor (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>	Mn-1	To be chosen from other discipline of same faculty	2		2		2+2 = 04
	Mn-2	To be chosen from other discipline of same faculty	2		2		
Generic / Open Elective ( GE/OE) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-3	To be chosen from other faculty	2		2		02
VSC ( Vocational Skill Courses) (Choose any one from pool of courses)	VSC-3	1) 2)	1		1		1+1 =02
	VSC-4	Practicals based on VSC-3		2		1	
AEC, VEC, IKS	AEC-3	Modern Indian Language (MIL-1) ( Choose any one from pool of language courses )	2		2		2 + 2 = 04
	VEC-2	Environmental Studies	2		2		
OJT/ FP/CEP/CC/RP	CC-3	Cultural Activity / NSS,NCC ( Common for all the faculty)		4		2	02
			15	14	15	07	22

#### Minor Courses for other Discipline

Mn-1 : This is a 2 credit theory course to be designed for other discipline

Mn-2 : This is a 2 credit theory course to be designed for other discipline

#### Generic /Open Elective Courses for other faculty

GE/OE-3 : This is a 2 credit theory course to be designed for other faculty

**BSc Second Year: 4<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-9		2		2		2+2+2+2 = 08
	DSC-10		2		2		
	DSC-11	Practical based on DSC-9		4		2	
	DSC-12	Practical based on DSC-10		4		2	
Minor (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>	Mn-3	To be chosen from other discipline of same faculty	2		2		2+2 = 04
	Mn-4	To be chosen from other discipline of same faculty	2		2		
Generic / Open Elective ( GE/OE) (Choose any one from pool of courses) <b>It should be chosen compulsorily from the faculty other than that of Major</b>	GE/OE-4	To be chosen from other faculty	2		2		02
SEC ( Skill Enhancement Courses) (Choose any one from pool of courses)	SEC-3	1) 2)	1		1		1+1 =02
	SEC-4	Practicals based on SEC-3		2		1	
AEC, VEC, IKS	AEC-4	Modern Indian Language (MIL-2) ( Choose any one from pool of language courses )	2		2		02
OJT/ FP/CEP/CC/RP	FP-1	Field Project		4		2	2+2= 04
	CC-4	(Fine/ Applied/ Visual/ Performing Arts) ( Common for all the faculty)		4		2	
			<b>13</b>	<b>18</b>	<b>13</b>	<b>09</b>	<b>22</b>
<b>Exit Option : Award of UG Diploma in major and minor with 88 credits and an additional 4 credits NSQF course ( related to major / minor) / Internship during summer vacation OR Continue with Major and Minor</b>							

**Minor Courses for other Discipline**

Mn-3 : This is a 2 credit theory course to be designed for other discipline

Mn-4 : This is a 2 credit theory course to be designed for other discipline

**Generic /Open Elective Courses for other faculty**

GE/OE-4 : This is a 2 credit theory course to be designed for other faculty

**Detailed Illustration of Courses included in 3<sup>rd</sup> and 4<sup>th</sup> semester:**

1) **Major (Core)** subject are mandatory.

DSC-5 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-6 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-7 : This is a 2 credit practical course based on DSC-5

DSC-8 : This is a 2 credit practical course based on DSC-6

DSC-9 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-10 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-11 : This is a 2 credit practical course based on DSC-9

DSC-12 : This is a 2 credit practical course based on DSC-10

2) **Minor : It is from different discipline of the same faculty**

Mn1 : This is a 2 credit theory from different discipline of the same faculty

Mn2 : This is a 2 credit theory from different discipline of the same faculty

Mn3 : This is a 2 credit theory from different discipline of the same faculty

Mn4 : This is a 2 credit theory from different discipline of the same faculty

3) **Generic / Open Elective ( GE/OE )** : (Needs to be chosen (any one) from pool of courses available at respective college). **These courses should be chosen compulsorily from faculty other than that of Major.**

GE/OE -3 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

GE/OE -4 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

4) **VSC (Vocational Skill Courses)** : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.

**VSC-3** : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

**VSC-4** : This is a 1 credit practical course based on VSC-3

5) **SEC (Skill Enhancement Courses)** : Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.

**SEC-3** : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

**SEC-4** : This is a 1 credit practical course based on SEC-3

6) **AEC (Ability Enhancement courses)**: The focus of these courses should be based on linguistic and communication skills.



**AEC-3 : Modern Indian Language MIL-1 (Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu)**

This is a 2 credit theory course based on linguistic proficiency. Students will have to choose one of the above mentioned language.

**AEC 4 : Modern Indian Language MIL-2 (Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu)**

This is a 2 credit theory course based on linguistic proficiency. Students will have to choose one of the above mentioned language.

7) **VEC-2 : Environmental Studies**

8) **FP-1 : Field Project** : This is a 2 credit course, should be corresponding to Major ( core) subject

9) **CC (Curricular Courses)**: The courses such as Health and wellness, Yoga education, Sports and Fitness, Cultural activities, NSS/NCC, Performing Arts. In the 3<sup>rd</sup> semester it will be either cultural activities OR NSS/NCC and will be common for all the faculty.

**CC-3 : Cultural Activity / NSS, NCC**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**CC-4 : Fine/ Applied/ Visual/ Performing Arts**

This is a 2 credit practical course based on Co-curricular activities. It will be common for all the faculty

**BSc Third Year: 5<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme ( Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-13		2		2		2+2+2+2=08
	DSC-14		2		2		
	DSC-15	Practical based on DSC-13		4		2	
	DSC-16	Practical based on DSC-14		4		2	
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-1	1) 2)	2		2		2+2=4
	DSE-2	Practical based on DSE-1		4		2	
Minor (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>	Mn-5	To be chosen from other discipline of same faculty	2		2		2+2 = 04
	Mn-6	To be chosen from other discipline of same faculty	2		2		
VSC ( Vocational Skill Courses) (Choose any one from pool of courses)	VSC-5	1) 2)	2		2		2+2 =04
	VSC-6	Practicals based on VSC-5		4		2	
OJT/ FP/CEP/CC/RP (Choose any one from pool of courses)	FP/CEP-2	Field Project / community engagement and service		4		2	02
			<b>12</b>	<b>20</b>	<b>12</b>	<b>10</b>	<b>22</b>

**Minor Courses for other Discipline**

Mn-5 : This is a 2 credit theory course to be designed for other discipline

Mn-6 : This is a 2 credit theory course to be designed for other discipline

**BSc Third Year: 6<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-17		2		2		2+2+2+2+2 = 10
	DSC-18		2		2		
	DSC-19	Practical based on DSC-17		4		2	
	DSC-20	Practical based on DSC-18		4		2	
	DSC-21	IKS-2 ( Indian Knowledge System related to Major)	2		2		
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-3	1) 2)	2		2		2+2=4
	DSE-4	Practical based on DSE-3		4		2	
Minor (Choose any one from pool of courses) <b>It is from different discipline of the same faculty</b>	Mn-7	To be chosen from other discipline of same faculty	2		2		2+2 = 04
	Mn-8	To be chosen from other discipline of same faculty	2		2		
OJT/ FP/CEP/CC/RP (Choose any one from pool of courses)	OJT-1	On Job Training		8		4	04
			<b>12</b>	<b>20</b>	<b>12</b>	<b>10</b>	<b>22</b>
<b>Exit option : Award of UG degree in Major with 132 credits OR continue with Major and Minor</b>							

**Minor Courses for other Discipline**

Mn-7 : This is a 2 credit theory course to be designed for other discipline

Mn-8 : This is a 2 credit theory course to be designed for other discipline

**Detailed Illustration of Courses included in 5<sup>th</sup> and 6<sup>th</sup> semester:**

1) **Major ( Core)** subject are mandatory.

DSC-13 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-14 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-15 : This is a 2 credit practical course based on DSC-13

DSC-16 : This is a 2 credit practical course based on DSC-14

DSC-17 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-18 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-19 : This is a 2 credit practical course based on DSC-17

DSC-20 : This is a 2 credit practical course based on DSC-18

DSC-21 (IKS-2 ) : This is a 2 credit theory course corresponding to Indian Knowledge System related to Major

2) **Discipline Specific Electives (DSE) :** (Needs to be chosen any one from pool of courses available at respective college). **These courses should be chosen related to Major.**

**DSE-1 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-2 :** This is a 2 credit practical course based on DSE-1

**DSE-3 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-4 :** This is a 2 credit practical course based on DSE-3

3) **Minor : It is from different discipline of the same faculty**

Mn5 : This is a 2 credit theory from different discipline of the same faculty

Mn6 : This is a 2 credit theory from different discipline of the same faculty

Mn7 : This is a 2 credit theory from different discipline of the same faculty

Mn8 : This is a 2 credit theory from different discipline of the same faculty

9) **VSC (Vocational Skill Courses) :** Choose any one from pool of courses. These courses should be based on Hands on Training corresponding to Major (core) subject.

**VSC-5 :** This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

**VSC-6 :** This is a 1 credit practical course based on VSC-5

10) **FP / CEP-2 :** Field Project / Community engagement and service : This is a 2 credit course related to Field Project / community engagement and service

11) **OJT-1 :** This is a 4 credit course related to On job Training

**BSc Fourth Year (UG Honours Degree): 7<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-22		2		2		2+2+2+2 = 08
	DSC-23		2		2		
	DSC-24	Practical based on DSC-22		4		2	
	DSC-25	Practical based on DSC-23		4		2	2+2+ 2=06
	DSC-26		2		2		
	DSC-27		2		2		
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-5	1) 2)	2		2		2+2=04
	DSE-6	Practical based on DSE-5		4		2	
Research Methodology	RM	Research Methodology	4		4		04
			<b>14</b>	<b>16</b>	<b>14</b>	<b>08</b>	<b>22</b>

**BSc Fourth Year (UG Honours Degree) : 8<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-29		2		2		2+2+2+2 = 08
	DSC-30		2		2		
	DSC-31	Practical based on DSC-29		4		2	
	DSC-32	Practical based on DSC-30		4		2	2+2+ 2=06
	DSC-33		2		2		
	DSC-34		2		2		
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-7	1) 2)	2		2		2+2=04
	DSE-8	Practical based on DSE-7		4		2	
OJT	OJT-2	On job training		8		4	04
			<b>10</b>	<b>24</b>	<b>10</b>	<b>12</b>	<b>22</b>
<b>Four Year UG Honours Degree in Major and Minor with 176 Credits</b>							



**Detailed Illustration of Courses included in 7<sup>th</sup> and 8<sup>th</sup> semester:**

1) **Major ( Core) subject** are mandatory.

DSC-22 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-23 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-24 : This is a 2 credit practical course based on DSC-22

DSC-25 : This is a 2 credit practical course based on DSC-23

DSC-26 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-27 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-28 : This is a 2 credit practical course based on DSC-26 and DSC-27

DSC-29 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-30 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-31 : This is a 2 credit practical course based on DSC-29

DSC-32 : This is a 2 credit practical course based on DSC-30

DSC-33 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-34 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-35 : This is a 2 credit practical course based on DSC-33 and DSC-34

2) **Discipline Specific Electives (DSE) :** (Needs to be chosen any one from pool of courses available at respective college). **These courses should be chosen related to Major.**

**DSE-5 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-6 :** This is a 2 credit practical course based on DSE-5

**DSE-7 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-8 :** This is a 2 credit practical course based on DSE-7

3) **Research Methodology**

RM : This is a 4 credit theory course based on Research Methodology

4) **On Job Training**

OJT-2 : This is a 4 credit course based on On Job Training

**BSc Fourth Year (UG Honours with Research Degree) : 7<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-22		2		2		2+2+2+2 = 08
	DSC-23		2		2		
	DSC-24	Practical based on DSC-22		4		2	
	DSC-25	Practical based on DSC-23		4		2	
	DSC-26		2		2		
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-5	1) 2)	2		2		2+2=04
	DSE-6	Practical based on DSE-5		4		2	
Research Methodology	RM	Research Methodology	4		4		04
Research Project	RP-1	Research Project		8		4	04
			<b>12</b>	<b>20</b>	<b>12</b>	<b>10</b>	<b>22</b>

**BSc Fourth Year ( UG Honours with Research Degree) : 8<sup>th</sup> Semester**

Course Type	Course Code	Course Name	Teaching Scheme (Hrs / Week)		Credits Assigned		Total Credits
			Theory	Practical	Theory	Practical	
Major ( Core) Mandatory	DSC-27		2		2		2+2+2+2 = 08
	DSC-28		2		2		
	DSC-29	Practical based on DSC-27		4		2	
	DSC-30	Practical based on DSC-28		4		2	
	DSC-31		2		2		
Discipline Specific Electives ( DSE) (Choose any one from pool of courses)	DSE-7	1) 2)	2		2		2+2=04
	DSE-8	Practical based on DSE-7		4		2	
Research Project	RP-2	Research Project		16		8	08
			<b>08</b>	<b>28</b>	<b>08</b>	<b>14</b>	<b>22</b>
<b>Four Year UG Honours with Research Degree in Major and Minor with 176 Credits</b>							

**Detailed Illustration of Courses included in 7<sup>th</sup> and 8<sup>th</sup> semester:**

1) **Major ( Core) subject** are mandatory.

DSC-22 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-23 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-24 : This is a 2 credit practical course based on DSC-22

DSC-25 : This is a 2 credit practical course based on DSC-23

DSC-26 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-27 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-28 : This is a 2 credit theory course corresponding to Major ( core) subject

DSC-29 : This is a 2 credit practical course based on DSC-27

DSC-30 : This is a 2 credit practical course based on DSC-28

DSC-31 : This is a 2 credit theory course corresponding to Major ( core) subject

2) **Discipline Specific Electives (DSE) :** (Needs to be chosen any one from pool of courses available at respective college). **These courses should be chosen related to Major.**

**DSE-5 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-6 :** This is a 2 credit practical course based on DSE-5

**DSE-7 :** This is a 2 credit discipline specific course ( elective) related to Major

**DSE-8 :** This is a 2 credit practical course based on DSE-7

3) **Research Methodology**

**RM :** This is a 4 credit theory course based on Research Methodology

4) **Research Project ( RP):**

**RP-1 :** This is a 4 credit practical course based on Research Pr

**RP-2:** This is a 8 credit practical course based on Research Methodology

### **General Guidelines for Course Selection**

- 1) The Major subject is the discipline or course of main focus, bachelors degree shall be awarded in that discipline / subject.
- 2) Students will have to choose any three subjects as a Major 1, Major 2, Major 3, from **Basket 1** under the Faculty of Science and Technology (based on the available options in the respective college).
- 3) Students will be having three subject options of equal credits (instead of Major and / or minor verticals) in the first year.
- 4) In the beginning of second year, students will have to select / declare choice of **one major subject and one minor subject** from three major options **M1, M2 and M3 (which were opted in the first year)**
- 5) Once the students finalize their **Major Subject and Minor Subject** in the beginning of the second year of the programme, they shall pursue their further education in that particular subject as their **Major and Minor** subjects. Therefore, from second year onwards curriculum of the Major and Minor subjects shall be different.
- 6) Students are required to select **Minor subject from other discipline of the same faculty**
- 7) Students are required to select **Generic /Open Elective** (vertical 3 in the credit framework) **compulsorily from the faculty different than that of their Major / Minor subjects.**
- 8) Vocational Skill Courses and Skill Enhancement Courses (VSC and SEC) shall be related to the Major subject
- 9) Curriculum of Ability Enhancement Courses (AEC), Value Education Courses (VEC), Indian Knowledge System (IKS), and Co-curricular Courses (CC) will be provided by the University separately.

### **Programme Educational Objectives (PEOs) :**

Programme Educational Objectives (PEOs) for the Bachelor of Science Curriculum under the National Education Policy 2020:

1. **Mastery of Discipline-Specific Knowledge:** Graduates of the Bachelor of Science program will demonstrate a deep understanding of fundamental principles, theories, and methodologies in their chosen scientific discipline, enabling them to analyze complex problems, propose innovative solutions, and contribute to advancements in their field.
2. **Interdisciplinary Proficiency:** Graduates will possess the ability to integrate knowledge and skills from multiple scientific disciplines, fostering a holistic approach to problem-solving and innovation. They will be equipped to address multifaceted challenges by drawing upon diverse perspectives and methodologies.
3. **Critical Thinking and Analytical Skills:** Graduates will develop strong critical thinking abilities, enabling them to evaluate information rigorously, analyze data effectively, and make informed decisions based on evidence. They will demonstrate proficiency in applying logical reasoning and scientific methods to solve problems and generate new knowledge.
4. **Leadership and Innovation:** Graduates will demonstrate leadership qualities and entrepreneurial mindset, capable of initiating and driving positive change in their organizations and communities. They will exhibit creativity, resilience, and adaptability, harnessing innovation to address complex challenges and seize opportunities for growth and advancement.
5. **Global Citizenship and Cultural Sensitivity:** Graduates will possess a global perspective and cultural sensitivity, recognizing the interconnectedness of diverse communities and the importance of collaboration across borders. They will engage in cross-cultural dialogue, embrace diversity, and contribute to the advancement of knowledge and understanding on a global scale.

These Programme Educational Objectives serve as guiding principles for the Bachelor of Science curriculum, reflecting our commitment to nurturing well-rounded graduates who are prepared to excel in their careers, contribute to society, and lead meaningful lives in a rapidly changing world.



### **Programme Outcomes (POs) :**

The National Education Policy (NEP) 2020 for India emphasizes several key aspects for Bachelor of Science (B.Sc.) programs, aiming to produce graduates who are not only well-versed in their respective disciplines but also equipped with skills necessary for holistic development and employability. While specific program outcomes may vary between institutions and disciplines within B.Sc. programs, here are some common outcomes aligned with NEP 2020:

- **PO1. The citizenship and society:** Apply broad understanding of ethical and professional skill in science subjects in the context of global, economic, environmental and societal realities while encompassing relevant contemporary issues.
- **PO2. Environment and sustainability:** Apply broad understanding of impact of science subjects in a global, economic, environmental and societal context and demonstrate the knowledge of, and need for sustainable development.
- **PO3. Ethics:** Apply ability to develop sustainable practical solutions for science subject related problems within positive professional and ethical boundaries.
- **PO4. Individual and team work:** Function effectively as a leader and as well as team member in diverse/ multidisciplinary environments.
- **PO5. Communication:** Communicate effectively on complex science subject related activities with the scientific community in particular and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO6. Project management and finance:** Demonstrate knowledge and understanding of the first principles of science and apply these to one's own work as a member and leader in a team, to complete project in any environment.
- **PO7. Life-long learning:** Recognize the need for lifelong learning and have the ability to engage in independent and life-long learning in the broadest context of technological change.

These program outcomes align with the broader goals of NEP 2020 to transform higher education in India and prepare students for the challenges and opportunities of the 21st century. Board of Studies designing B.Sc. curricula are encouraged to incorporate these outcomes into their program objectives and learning outcomes.

### **Programme Specific Outcomes (PSOs):**

(Programme specific outcomes are discipline / major specific. Different major will have different PSOs. **Following is the example of PSOs for Electronics Major. Respective BoS is expected to draft PSOs related to their Major)**

**PSO1. Domain knowledge:** Apply the knowledge of electronics fundamental, and advanced areas of Electronics to provide comprehensive solution of problems in complex electronics.

**PSO2. Problem Analysis:** Identify electronics related problems at varied complexity and analyze the same to formulate/ develop substantiated conclusion using first principles of Electronics

**PSO3. Design Development of solutions:** Design/ develop solutions for problems at varied complexity in various areas of Electronics to address changing challenges put forward by market demand/ stakeholder

**PSO4. Conduct Investigation of complex problems:** Use established knowledge and methods to design of experiments, analyze resulting data and interpret the same to provide valid conclusions.

**PSO5. Modern tools:** Create, select, and apply appropriate techniques, resources, and modern electronics and relevant IT tools including prediction and modeling to complex electronics technology related activities with clear understanding of the limitations.



**Template of Course / Paper:**

(Respective BoS is expected to use following template for syllabus of each course / paper)

<b>DSC-1 : ( Title of Paper).....</b>		
Total Credits : 02 Maximum Marks : 50		Total Contact Hours : 30 Hrs
<b>Learning Objectives of the Course:</b>  i) ..... ii) ..... iii)..... iv) ..... v) .....		
<b>Course Outcomes ( COs ) :</b> After completion of the course, students will be able to -  i) ..... ii) ..... iii)..... iv) ..... v) .....		
ModuleNo.	Topics / actual contents of the syllabus	Contact Hours
<b>I</b>		<b>10 Hrs</b>
<b>II</b>		<b>10 Hrs</b>
<b>III</b>		<b>10 Hrs</b>
<b>Text Books:</b> 1. Name Authors (as appear on the book), "Title of text Book", Vol..., Edition, Name of Publisher, Year of Publications 2. ..		



3. ..

***Reference Books:***

1. Name Authors (as appear on the book), "Title of reference Book",  
Vol..., Edition, Name of Publisher, Year of Publications
2. ..
3. ..
4. ..



**Basket 1: List of Major subjects in Science (DSC)**

Students willing to pursue their bachelors in the **Faculty of Science and Technology** shall choose any three subjects (from the following options) as Major 1, Major 2 and Major 3 ( Based on the available options in the respective college)

Semester	Sr No	BOS / Ad hoc Board proposing the course	Title of the Corse
<p><b>1<sup>st</sup> and 2<sup>nd</sup> Semester</b>  <i>(Students shall choose any three subjects (from these options) as Major 1, Major 2 and Major 3 ( Based on the available options in the respective college)</i></p>	1	BOS in Botany	Botany
	2	BOS in Chemistry	Chemistry Analytical Chemistry Polymer Chemistry
	3	BOS in Mathematics	Mathematics
	4	BOS in Physics	Physics Non-Conventional and Conventional Energy Instrumentation Practice
	5	BOS in Zoology	Zoology
	6	BOS in Electronics	Electronics
	7	BOS in Fishery Science	Fishery Science
	8	BOS in Microbiology	Microbiology
	9	Ad Hoc Board in Statistics	Statistics
	10	Ad hoc Board in Industrial Chemistry	Industrial Chemistry
	11	Ad hoc Board in Dairy Science & Technology	Dairy Science & Technology
	12	Ad hoc Board in Biotechnology and Bioinformatics	Biotechnology Bioinformatics
	13	Ad hoc Board in Biochemistry	Biochemistry
	14	Ad hoc Board in Home Science	Home Science
	15	Ad Hoc Board in Agrochemical Fertilizers, Horticulture, Dry land Agriculture	Agrochemical Fertilizers Horticulture
	16	Ad hoc Board in Forensic Science	Forensic Science Forensic Science & Cyber Security
	17	Ad Hoc Board in Computer Science	Computer Science Computer Application Information Technology Data Science
	18	Ad Hoc Board in Networking and Multimedia	Networking and Multimedia
	19	Ad Hoc Board in Environmental Science	Environmental Science
	20	BOS in Fishery Science	Fishery Science
	21	Ad hoc Board in Automobile Technology / Workshop Technology / Refrigerator and Air Conditioning	Automobile Technology Workshop Technology Refrigerator and Air

			Conditioning
	22	Ad hoc Board in Geology	Geology

The students from Faculty of Science and Technology will be selecting GE/OE from the Basket 2 of either of other three faculty ( i.e i) Faculty of Humanities, ii) Faculty of Commerce and Management iii) Faculty of Interdisciplinary Studies )

**Basket 2: List of Major subjects in Science (DSC) : for the students from other Faculty**

Students from other three faculty i.e. i) Faculty of Humanities, ii) Faculty of Commerce and Management iii) Faculty of Interdisciplinary Studies may select GE/OE from the following list in respective semester.

**Basket 2 ( for 1<sup>st</sup> Semester)**

Semester	Sr No	BOS / Ad hoc Board proposing the course	Title of the Corse
1 <sup>st</sup> Semester	1	BOS in Botany	
	2	BOS in Chemistry	
	3	BOS in Mathematics	
	4	BOS in Physics	
	5	BOS in Zoology	
	6	BOS in Electronics	
	7	BOS in Fishery Science	
	8	BOS in Microbiology	
	9	Ad Hoc Board in Statistics	
	10	Ad hoc Board in Industrial Chemistry	
	11	Ad hoc Board in Dairy Science & Technology	
	12	Ad hoc Board in Biotechnology and Bioinformatics	
	13	Ad hoc Board in Biochemistry	
	14	Ad hoc Board in Home Science	
	15	Ad Hoc Board in Agrochemical Fertilizers, Horticulture, Dry land Agriculture	
	16	Ad hoc Board in Forensic Science	



	17	Ad Hoc Board in Computer Science	
	18	Ad Hoc Board in Networking and Multimedia	
	19	Ad Hoc Board in Environmental Science	
	20	BOS in Fishery Science	
	21	Ad hoc Board in Automobile Technology / Workshop Technology / Refrigerator and Air Conditioning	
	22	Ad hoc Board in Geology	

**Basket 2 ( for 2<sup>nd</sup> Semester)**

Semester	Sr No	BOS / Ad hoc Board proposing the course	Title of the Course
2 <sup>nd</sup> Semester	1	BOS in Botany	
	2	BOS in Chemistry	
	3	BOS in Mathematics	
	4	BOS in Physics	
	5	BOS in Zoology	
	6	BOS in Electronics	
	7	BOS in Fishery Science	
	8	BOS in Microbiology	
	9	Ad Hoc Board in Statistics	
	10	Ad hoc Board in Industrial Chemistry	
	11	Ad hoc Board in Dairy Science & Technology	
	12	Ad hoc Board in Biotechnology and Bioinformatics	
	13	Ad hoc Board in Biochemistry	
	14	Ad hoc Board in Home Science	
	15	Ad Hoc Board in Agrochemical Fertilizers, Horticulture, Dry land Agriculture	
	16	Ad hoc Board in Forensic Science	
	17	Ad Hoc Board in Computer Science	

	18	Ad Hoc Board in Networking and Multimedia	
	19	Ad Hoc Board in Environmental Science	
	20	BOS in Fishery Science	
	21	Ad hoc Board in Automobile Technology / Workshop Technology / Refrigerator and Air Conditioning	
	22	Ad hoc Board in Geology	

**Basket 3 : Ability Enhancement Course (AEC)**

This Basket will have list of Ability Enhancement Courses (AEC) which will be common for all the faculty

**Basket 4 : Value Education Courses (VEC) / Indian Knowledge System (IKS)**

This Basket will have list of Value Education Courses (VEC) and Indian Knowledge System (IKS) courses which will be common for all the faculty

**Basket 5 : Co-curricular Courses (CC)**

This Basket will have list of co-curricular courses which will be common for all the faculty

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