

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



**CIRCULAR NO.SU/ Sci./College/NEP-2020/84/2024**

It is hereby inform to all concerned that, In continuation circular No. SU. /Revised B.Sc. Structure/NEP-2020/70/2024/23856-64 dated 19.03.2024, recommended by the Board of Deans, the Academic Council at its meeting held on 08 April 2024 has accepted **the Revised B.Sc. Course Structure** as per direction by the State Government dated on 13 March 2024 under the Faculty of Science & Technology as per National Education Policy – 2020 and run at the Affiliated Colleges, Dr.Babasaheb Ambedkar Marathwada University as appended herewith.

This is effective from the Academic Year 2024-25 and onwards.

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

University Campus, ★  
Chhatrapati Sambhajinagar ★  
-431 004. ★  
REF.NO. SU/SCI./2024/25490-98 ★  
Date:- 20.05.2024. ★  
\*\*\*\*\*  
★

  
**Deputy Registrar,  
Academic Section.**

**Copy forwarded with compliments to :-**

- 1] **The Principal of all concerned Colleges,**  
Dr. Babasaheb Ambedkar Marathwada University,
- 2] **The Director, University Network & Information Centre, UNIC, with a request to upload this Circular on University Website.**

**Copy to :-**

- 1] The Director, Board of Examinations & Evaluation, Dr.Babasaheb Ambedkar Marathwada University,Chhatrapati Sambhajinagar.
- 2] The Section Officer,[B.Sc.Unit] Examination Branch, Dr.Babasaheb Ambedkar Marathwada University,Chhatrapati Sambhajinagar.
- 3] The Programmer [Computer Unit-1] Examinations, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 4] The Programmer [Computer Unit-2] Examinations, Dr.Babasaheb Ambedkar Marathwada University,Chhatrapati Sambhajinagar.
- 5] The In-charge,[E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr.Babasaheb Ambedkar Marathwada University,Chhatrapati Sambhajinagar.
- 6] The Public Relation Officer, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.
- 7] The Record Keeper, Dr.Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.

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



**B.Sc. Degree Programme**

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

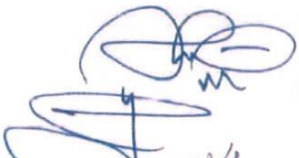
# **Course Structure**

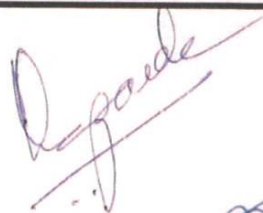
**(Revised)**

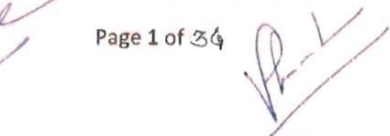
**( AS PER NEP-2020)**

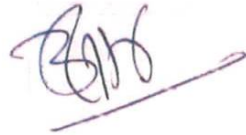
**Subject (Major): .....**

**Effective from 2024-25**

  
28/03/2024



  
28/3/2024



**Course Structure, Template  
of Curriculum  
And  
Coding Scheme**

## 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     | Examination Code<br>( To be given by respective BoS) | Course Name  | Teaching Scheme<br>( Hrs / Week) |           | Credits Assigned |           | Total Credits |
|--|-----------------|--|--|----------------------------------|-----------|------------------|-----------|---------------|
|  |                 |  |  | Theory                           | Practical | Theory           | Practical |               |
| Major ( Core) M1<br>Mandatory DSC  | SUB/DSC/T/100   |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/126   |  | Practical based on SUB/DSC/T/100                     |                                  | 4         |                  | 2         |               |
| Major ( Core) M2<br>Mandatory DSC  | SUB/DSC/T/101   |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/127   |  | Practical based on SUB/DSC/T/101                     |                                  | 4         |                  | 2         |               |
| Major ( Core) M3<br>Mandatory DSC  | SUB/DSC/T/102   |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/128   |  | Practical based on SUB/DSC/T/102                     |                                  | 4         |                  | 2         |               |
| Generic / Open Elective ( GE/OE)<br>(Choose any one from pool of courses)<br><b>It should be chosen compulsorily from the faculty other than that of Major</b> | SUB/GE/OE/T/100 |  | To be chosen from other faculty                      | 2                                |           | 2                |           | 2             |
| SEC<br>( Skill Enhancement Courses)<br>(Choose any one from SUB/SEC/T/100 and SUB/SEC/T/101 and its corresponding Practicals)                                  | SUB/SEC/T/100   |  | Theory Course  | 1                                |           | 1                |           | 1 + 1 = 2     |
|  | SUB/SEC/T/101   |  | Theory Course  | 1                                |           | 1                |           |               |
|  | SUB/SEC/P/126   |  | Practicals based on SUB/SEC/T/100                    |                                  | 2         |                  | 1         |               |
|  | SUB/SEC/P/127   |  | Practicals based on SUB/SEC/T/101                    |                                  | 2         |                  | 1         |               |
| AEC, VEC, IKS  | SUB/AEC/T/100   |  | <b>English</b><br>( Common for all the faculty)      | 2                                |           | 2                |           | 2+2=4         |
|  | SUB/IKS/T/101   |  | Choose any one from pool of courses                  | 2                                |           | 2                |           |               |
| OJT/ FP/CEP/CC/RP  | SUB/CC/P/126    |  | Health and Wellness<br>( Common for all the faculty) |                                  | 4         |                  | 2         | 2             |
|  |                 |  |  | <b>13</b>                        | <b>18</b> | <b>13</b>        | <b>09</b> | <b>22</b>     |

SUB/GE/ OE/T/100: This is a 2 credit theory course to be designed for other faculty

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

| Course Type  | Course Code       | Examination Code<br>( To be given by respective BoS) | Course Name  | Teaching Scheme<br>( Hrs / Week) |           | Credits Assigned |           | Total Credits |
|--|-------------------|--|--|----------------------------------|-----------|------------------|-----------|---------------|
|  |                   |  |  | Theory                           | Practical | Theory           | Practical |               |
| Major ( Core) M1<br>Mandatory DSC  | SUB/ DSC/T/ 150   |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/ 176    |  | Practical based on SUB/ DSC/T/150  |                                  | 4         |                  | 2         |               |
| Major ( Core) M2<br>Mandatory DSC  | SUB/DSC/T/ 151    |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/ 177    |  | Practical based on SUB/DSC/T/151   |                                  | 4         |                  | 2         |               |
| Major ( Core) M3<br>Mandatory DSC  | SUB/DSC/T/ 152    |  | Theory Course  | 2                                |           | 2                |           | 2+2 = 4       |
|  | SUB/DSC/P/ 178    |  | Practical based on SUB/DSC/T/152   |                                  | 4         |                  | 2         |               |
| Generic / Open Elective<br>( GE/OE)<br>(Choose any one from pool of courses)<br><b>It should be chosen compulsorily from the faculty other than that of Major</b>      | SUB/GE/OE/ T/ 150 |  | To be chosen from other faculty  | 2                                |           | 2                |           | 2             |
| VSC<br>( Vocational Skill Courses)<br>(Choose any one from SUB/VSC/T/150 and SUB/VSC/T/151) and corresponding Practicals   | SUB/VSC/T/ 150    |  | Theory Course  | 1                                |           | 1                |           | 1 + 1 = 2     |
|  | SUB/VSC/T/ 151    |  | Theory Course  | 1                                |           | 1                |           |               |
|  | SUB/VSC/P/ 176    |  | Practicals based on SUB/VSC/T/150  |                                  | 2         |                  | 1         |               |
|  | SUB/VSC/P/ 177    |  | Practicals based on SUB/VSC/T/151  |                                  | 2         |                  | 1         |               |
| AEC, VEC, IKS  | SUB/AEC/T/ 150    |  | Modern Indian Language (MIL-1)<br>( Choose any one from pool of language courses ) | 2                                |           | 2                |           | 2+2=4         |
|  | SUB/VEC/T /151    |  | Constitution of India<br>( Common for all the faculty)                             | 2                                |           | 2                |           |               |
| OJT/ FP/CEP/CC/RP  | SUB/CC/P/ 176     |  | Yoga Education / Sports and Fitness<br>( 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> |                   |  |  |                                  |           |                  |           |               |

SUB/GE/OE/T/150: 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.

SUB/DSC/T/100: This is a 2 credit theory course corresponding to Major (M1) (core) subject

SUB/DSC/P/126: This is a 2 credit practical course based on SUB/DSC/T/100

SUB/DSC/T/101: This is a 2 credit theory course corresponding to Major (M2) (core) subject

SUB/DSC/P/127: This is a 2 credit practical course based on SUB/DSC/T/101

SUB/DSC/T/102: This is a 2 credit theory course corresponding to Major (M3) (core) subject

SUB/DSC/P/128: This is a 2 credit practical course based on SUB/DSC/T/102

SUB/DSC/T/150: This is a 2 credit theory course corresponding to Major (M1) (core) subject

SUB/DSC/P/176: This is a 2 credit practical course based on SUB/DSC/T/150

SUB/DSC/T/151: This is a 2 credit theory course corresponding to Major (M2) (core) subject

SUB/DSC/P/177: This is a 2 credit practical course based on SUB/DSC/T/151

SUB/DSC/T/152: This is a 2 credit theory course corresponding to Major (M3) (core) subject

SUB/DSC/P/178: This is a 2 credit practical course based on SUB/DSC/T/152

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.**

SUB/GE/OE/T/100 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

SUB/GE/OE/T/150: 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.

**SUB/SEC/T/100 :** This is a 1 credit theory course to enhance the technical skills of the students in specific area.

**SUB/SEC/P/126:** This is a 1 credit practical course based on SUB/SEC/T/100

**SUB/SEC/T/101 :** This is a 1 credit theory course to enhance the technical skills of the students in specific area.

**SUB/SEC/P/127:** This is a 1 credit practical course based on SUB/SEC/T/101

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.

**SUB/VSC/T/150 :** This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

**SUB/VSC/P/176:** This is a 1 credit practical course based on SUB/VSC/T/150

**SUB/VSC/T/151** : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

**SUB/VSC/P/177**: This is a 1 credit practical course based on SUB/VSC/T/151

- 5) **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.

**SUB/AEC/T/100 : English**

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

**SUB/AEC/T/150 : Modern Indian Language MIL-1** (Hindi/ Marathi/ Pali & Buddhism/ Sanskrit/ Urdu)

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.

**SUB/IKS/T/101 : 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.

**SUB/VEC/T/151: 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.

**SUB/CC/P/126 : Health and Wellness**

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

**SUB/CC/P/176 : 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         | Examination Code<br>( To be given by respective BoS) | Course Name  | Teaching Scheme<br>( Hrs / Week) |           | Credits Assigned |           | Total Credits   |
|--|---------------------|--|--|----------------------------------|-----------|------------------|-----------|-----------------|
|  |                     |  |  | Theory                           | Practical | Theory           | Practical |                 |
| Major ( Core)<br>Mandatory DSC   | SUB/DSC/T/<br>200   |  | Theory Course  | 2                                |           | 2                |           | 2+2+2+2 =<br>08 |
|  | SUB/DSC/T/<br>201   |  | Theory Course  | 2                                |           | 2                |           |                 |
|  | SUB/DSC/P/<br>226   |  | Practical based on<br>SUB/DSC/T/ 200                               |                                  | 4         |                  | 2         |                 |
|  | SUB/DSC/P/<br>227   |  | Practical based on<br>SUB/DSC/T/ 201                               |                                  | 4         |                  | 2         |                 |
| Minor (Choose any two<br>from pool of courses)<br><b>It is from different<br/>discipline of the same<br/>faculty</b>   | SUB/Mn/T/<br>200    |  | To be chosen from<br>other discipline of<br>same faculty           | 2                                |           | 2                |           | 2+2 = 04        |
|  | SUB/Mn/T/<br>201    |  | To be chosen from<br>other discipline of<br>same faculty           | 2                                |           | 2                |           |                 |
| Generic / Open Elective<br>( GE/OE)<br>(Choose any one from<br>pool of courses)<br><b>It should be chosen<br/>compulsorily from the<br/>faculty other than that<br/>of Major</b> | SUB/GE/OE/<br>T/200 |  | To be chosen from<br>other faculty                                 | 2                                |           | 2                |           | 02              |
| VSC<br>( Vocational Skill<br>Courses)<br>(Choose any one from<br>SUB/VSC/T/ 200 and<br>SUB/VSC/T/ 201) and<br>corresponding<br>Practicals  | SUB/VSC/T/<br>200   |  | Theory Course  | 1                                |           | 1                |           | 1+1 =02         |
|  | SUB/VSC/T/<br>201   |  | Theory Course  | 1                                |           | 1                |           |                 |
|  | SUB/VSC/P/<br>226   |  | Practicals based on<br>SUB/VSC/T/ 200                              |                                  | 2         |                  | 1         |                 |
|  | SUB/VSC/P/<br>227   |  | Practicals based on<br>SUB/VSC/T/ 201                              |                                  | 2         |                  | 1         |                 |
| AEC, VEC, IKS  | SUB/AEC/T/<br>200   |  | <b>English</b><br>( Common for all<br>the faculty)                 | 2                                |           | 2                |           | 2 + 2 = 04      |
|  | SUB/VEC/T/<br>201   |  | Environmental<br>Studies   | 2                                |           | 2                |           |                 |
| OJT/ FP/CEP/CC/RP  | SUB/CC/P/<br>226    |  | Cultural Activity /<br>NSS,NCC<br>( Common for all<br>the faculty) |                                  | 4         |                  | 2         | 02              |
|  |                     |  |  | <b>15</b>                        | <b>14</b> | <b>15</b>        | <b>07</b> | <b>22</b>       |

### Minor Courses for other Discipline

SUB/Mn/T/ 200 : This is a 2 credit theory course to be designed for other discipline

SUB/Mn/T/ 201 : This is a 2 credit theory course to be designed for other discipline

### Generic /Open Elective Courses for other faculty

SUB/GE/OE/T/200 : 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      | Examination Code ( To be given by respective BoS) | Course Name   | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits |
|--|------------------|---|---|-------------------------------|-----------|------------------|-----------|---------------|
|  |                  |   |   | Theory                        | Practical | Theory           | Practical |               |
| Major ( Core) Mandatory DSC  | SUB/DSC/T/ 250   |   | Theory Course   | 2                             |           | 2                |           | 2+2+2+2 = 08  |
|  | SUB/DSC/T/ 251   |   | Theory Course   | 2                             |           | 2                |           |               |
|  | SUB/DSC/P/ 276   |   | Practical based on SUB/DSC/T/ 250   |                               | 4         |                  | 2         |               |
|  | SUB/DSC/P/ 277   |   | Practical based on SUB/DSC/T/ 251   |                               | 4         |                  | 2         |               |
| Minor (Choose any two from pool of courses)<br><b>It is from different discipline of the same faculty</b>  | SUB/Mn/T/ 250    |   | To be chosen from other discipline of same faculty                              | 2                             |           | 2                |           | 2+2 = 04      |
|  | SUB/Mn/T/ 251    |   | To be chosen from other discipline of same faculty                              | 2                             |           | 2                |           |               |
| Generic / Open Elective ( GE/OE) (Choose any one from pool of courses)<br><b>It should be chosen compulsorily from the faculty other than that of Major</b>  | SUB/GE/OE/ T/250 |   | To be chosen from other faculty   | 2                             |           | 2                |           | 02            |
| SEC ( Skill Enhancement Courses) (Choose any one from SUB/SEC/T/ 250 and SUB/SEC/T/ 251) and corresponding Practicals  | SUB/SEC/T/ 250   |   | Theory Course   | 1                             |           | 1                |           | 1+1 =02       |
|  | SUB/SEC/T/ 251   |   | Theory Course   | 1                             |           | 1                |           |               |
|  | SUB/SEC/P/ 276   |   | Practicals based on SUB/SEC/T/ 250  |                               | 2         |                  | 1         |               |
|  | SUB/SEC/P/ 277   |   | Practicals based on SUB/SEC/T/ 251  |                               | 2         |                  | 1         |               |
| AEC, VEC, IKS  | SUB/AEC/T/ 250   |   | Modern Indian Language (MIL-2) ( Choose any one from pool of language courses ) | 2                             |           | 2                |           | 02            |
| OJT/ FP/CEP/CC/RP  | SUB/FP/P/ 276    |   | Field Project   |                               | 4         |                  | 2         | 2+2= 04       |
|  | SUB/CC/P/ 277    |   | (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

SUB/Mn/T/ 250 : This is a 2 credit theory course to be designed for other discipline

SUB/Mn/T/ 251: This is a 2 credit theory course to be designed for other discipline

### Generic /Open Elective Courses for other faculty

SUB/GE/OE/T/250 : 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.

SUB/DSC/T/200: This is a 2 credit theory course corresponding to Major (core) subject

SUB/DSC/T/201: This is a 2 credit theory course corresponding to Major (core) subject

SUB/DSC/P/226: This is a 2 credit practical course based on SUB/DSC/T/200

SUB/DSC/P/227: This is a 2 credit practical course based on SUB/DSC/T/201

SUB/DSC/T/250: This is a 2 credit theory course corresponding to Major (core) subject

SUB/DSC/T/251: This is a 2 credit theory course corresponding to Major (core) subject

SUB/DSC/P/276: This is a 2 credit practical course based on SUB/DSC/T/250

SUB/DSC/P/277: This is a 2 credit practical course based on SUB/DSC/T/251

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

SUB/Mn/T/200 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/201 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/250 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/251 : 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.**

SUB/GE/OE/T/200 : This is a 2 credit theory course should be chosen compulsorily from faculty other than that of Major.

SUB/GE/OE/T/250: 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.

SUB/VSC/T/200 : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

SUB/VSC/T/201 : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

SUB/VSC/P/226 : This is a 1 credit practical course based on SUB/VSC/T/200

SUB/VSC/P/227 : This is a 1 credit practical course based on SUB/VSC/T/201

### 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.

SUB/SEC/T/250 : This is a 1 credit theory course to enhance the technical skills of the students in specific area.

SUB/SEC/T/251 : This is a 1 credit theory course to enhance the technical skills of the students in specific area.

**SUB/SEC/P/276** : This is a 1 credit practical course based on **SUB/SEC/T/250**

**SUB/SEC/P/277** : This is a 1 credit practical course based on **SUB/SEC/T/251**

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

**SUB/AEC/T/200 : English**

This is a 2 credit theory course based on linguistic proficiency.

**SUB/AEC/T/250 : 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 languages.

- 7) **VEC : Environmental Studies**

**SUB/VEC/T/201 : Environmental Studies**

This is 2-credit theory course based on Environmental Studies.

- 8) **FP-1 : Field Project :**

**SUB/FP/P/276** : 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.

**SUB/CC/P/226 : Cultural Activity / NSS, NCC**

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

**SUB/CC/P/277 : 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      | Examination Code ( To be given by respective BoS) | Course Name  | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits |
|---|------------------|---|--|-------------------------------|-----------|------------------|-----------|---------------|
|   |                  |   |  | Theory                        | Practical | Theory           | Practical |               |
| Major ( Core) Mandatory DSC   | SUB/DSC/T/300    |   | Theory Course                                      | 2                             |           | 2                |           | 2+2+2+2= 08   |
|   | SUB/DSC/T/301    |   | Theory Course                                      | 2                             |           | 2                |           |               |
|   | SUB/DSC/P/326    |   | Practical based on SUB/DSC/T/ 300                  |                               | 4         |                  | 2         |               |
|   | SUB/DSC/P/327    |   | Practical based on SUB/DSC/T/ 301                  |                               | 4         |                  | 2         |               |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T/ 300 and SUB/DSE/T/ 301) and corresponding Practicals | SUB/DSE/T/300    |   | Theory Course                                      | 2                             |           | 2                |           | 2+2=4         |
|   | SUB/DSE/T/301    |   | Theory Course                                      | 2                             |           | 2                |           |               |
|   | SUB/DSE/P/326    |   | Practical based on SUB/DSE/T/ 300                  |                               | 4         |                  | 2         |               |
|   | SUB/DSE/P/327    |   | Practical based on SUB/DSE/T/ 301                  |                               | 4         |                  | 2         |               |
| Minor (Choose any two from pool of courses) <b>It is from different discipline of the same faculty</b>                    | SUB/Mn/T/300     |   | To be chosen from other discipline of same faculty | 2                             |           | 2                |           | 2+2 = 04      |
|   | SUB/Mn/T/301     |   | To be chosen from other discipline of same faculty | 2                             |           | 2                |           |               |
| VSC ( Vocational Skill Courses) (Choose any one from SUB/VSC/T/ 300 and SUB/VSC/T/ 301) and corresponding Practicals      | SUB/VSC/T/300    |   | Theory Course                                      | 2                             |           | 2                |           | 2+2 =04       |
|   | SUB/VSC/T/301    |   | Theory Course                                      | 2                             |           | 2                |           |               |
|   | SUB/VSC/P/326    |   | Practicals based on SUB/VSC/T/ 300                 |                               | 4         |                  | 2         |               |
|   | SUB/VSC/P/327    |   | Practicals based on SUB/VSC/T/ 301                 |                               | 4         |                  | 2         |               |
| OJT/ FP/CEP/CC/RP (Choose any one from pool of courses)   | SUB/FP/CEP/P/326 |   | 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

SUB/Mn/T/ 300 : This is a 2 credit theory course to be designed for other discipline

SUB/DSE/T/ 301: 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   | Examination Code ( To be given by respective BoS) | Course Name  | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits  |
|--|---------------|---|--|-------------------------------|-----------|------------------|-----------|----------------|
|  |               |   |  | Theory                        | Practical | Theory           | Practical |                |
| Major ( Core) Mandatory DSC  | SUB/DSC/T/350 |   | Theory Course                                      | 2                             |           | 2                |           | 2+2+2+2+2 = 10 |
|  | SUB/DSC/T/351 |   | Theory Course                                      | 2                             |           | 2                |           |                |
|  | SUB/DSC/P/376 |   | Practical based on SUB/DSC/T/ 350                  |                               | 4         |                  | 2         |                |
|  | SUB/DSC/P/377 |   | Practical based on SUB/DSC/T/ 351                  |                               | 4         |                  | 2         |                |
|  | SUB/DSC/T/352 |   | IKS-2 ( Indian Knowledge System related to Major)  | 2                             |           | 2                |           |                |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T/ 350 and SUB/DSE/T/ 351 ) and corresponding Practicals | SUB/DSE/T/350 |   | Theory Course                                      | 2                             |           | 2                |           | 2+2=4          |
|  | SUB/DSE/T/351 |   | Theory Course                                      | 2                             |           | 2                |           |                |
|  | SUB/DSE/P/376 |   | Practical based on SUB/DSE/T/ 350                  |                               | 4         |                  | 2         |                |
|  | SUB/DSE/P/377 |   | Practical based on SUB/DSE/T/ 351                  |                               | 4         |                  | 2         |                |
| Minor (Choose any one from pool of courses) <b>It is from different discipline of the same faculty</b>                     | SUB/Mn/T/350  |   | To be chosen from other discipline of same faculty | 2                             |           | 2                |           | 2+2 = 04       |
|  | SUB/Mn/T/351  |   | To be chosen from other discipline of same faculty | 2                             |           | 2                |           |                |
| OJT/ FP/CEP/CC/RP (Choose any one from pool of courses)  | SUB/OJT/P/376 |   | 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

SUB/Mn/T/ 350: This is a 2 credit theory course to be designed for other discipline

SUB/Mn/T/ 351: 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.

SUB/DSC/T/300 : This is a 2 credit theory course corresponding to Major ( core) subject

SUB/DSC/T/301 : This is a 2 credit theory course corresponding to Major ( core) subject

SUB/DSC/P/326 : This is a 2 credit practical course based on SUB/DSC/T/300

SUB/DSC/P/327 : This is a 2 credit practical course based on SUB/DSC/T/301

SUB/DSC/T/350 : This is a 2 credit theory course corresponding to Major ( core) subject

SUB/DSC/T/351 : This is a 2 credit theory course corresponding to Major ( core) subject

SUB/DSC/P/376 : This is a 2 credit practical course based on SUB/DSC/T/350

SUB/DSC/P/377 : This is a 2 credit practical course based on SUB/DSC/T/351

SUB/DSC/T/352 ( 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.

SUB/DSE/T/300 : This is a 2 credit discipline specific course ( elective) related to Major

SUB/DSE/T/301 : This is a 2 credit discipline specific course ( elective) related to Major

SUB/DSE/P/326 : This is a 2 credit practical course based on SUB/DSE/T/300

SUB/DSE/P/327 : This is a 2 credit practical course based on SUB/DSE/T/301

SUB/DSE/T/350 : This is a 2 credit discipline specific course ( elective) related to Major

SUB/DSE/T/351 : This is a 2 credit discipline specific course ( elective) related to Major

SUB/DSE/P/376 : This is a 2 credit practical course based on SUB/DSE/T/350

SUB/DSE/P/377 : This is a 2 credit practical course based on SUB/DSE/T/351

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

SUB/Mn/T/300 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/301 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/350 : This is a 2 credit theory from different discipline of the same faculty

SUB/Mn/T/351 : This is a 2 credit theory from different discipline of the same faculty

### 10) 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.

SUB/VSC/T/300 : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

SUB/VSC/T/301 : This is a 1 credit theory course based Hands on Training corresponding to Major ( core) subject.

SUB/VSC/P/326: This is a 1 credit practical course based on SUB/VSC/T/300

SUB/VSC/P/327: This is a 1 credit practical course based on SUB/VSC/T/301

### 11) SUB/FP/CEP/P/326 : Field Project / Community engagement and service : This is a 2 credit practical course related to Field Project / community engagement and service

### 12) SUB/OJT/P/376 : This is a 4 credit practical course related to On job Training

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

| Course Type   | Course Code    | Examination Code ( To be given by respective BoS) | Course Name  | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits    |
|---|----------------|---|--|-------------------------------|-----------|------------------|-----------|------------------|
|   |                |   |  | Theory                        | Practical | Theory           | Practical |                  |
| Major ( Core) Mandatory DSC   | SUB/DSC/T/ 400 |   | Theory Course  | 2                             |           | 2                |           | 2+2+2+<br>2 = 08 |
|   | SUB/DSC/T/ 401 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSC/P/ 426 |   | Practical based on SUB/DSC/T/ 400                    |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/P/ 427 |   | Practical based on SUB/DSC/T/ 401                    |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/T/ 402 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSC/T/ 403 |   | Theory Course  | 2                             |           | 2                |           | 2+2+<br>2=06     |
|   | SUB/DSC/P/ 428 |   | Practical based on SUB/DSC/T/ 402 and SUB/DSC/T/ 403 |                               | 4         |                  | 2         |                  |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T/ 400 and SUB/DSE/T/ 401) and corresponding Practicals | SUB/DSE/T/ 400 |   | Theory Course  | 2                             |           | 2                |           | 2+2=04           |
|   | SUB/DSE/T/ 401 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSE/P/ 426 |   | Practical based on SUB/DSE/T/ 400                    |                               | 4         |                  | 2         |                  |
|   | SUB/DSE/P/ 427 |   | Practical based on SUB/DSE/T/ 401                    |                               | 4         |                  | 2         |                  |
| Research Methodology  | SUB/RM/T/ 400  |   | 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    | Examination Code ( To be given by respective BoS) | Course Name  | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits    |
|---|----------------|---|--|-------------------------------|-----------|------------------|-----------|------------------|
|   |                |   |  | Theory                        | Practical | Theory           | Practical |                  |
| Major ( Core) Mandatory DSC   | SUB/DSC/T/ 450 |   | Theory Course  | 2                             |           | 2                |           | 2+2+2+<br>2 = 08 |
|   | SUB/DSC/T/ 451 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSC/P/ 476 |   | Practical based on SUB/DSC/T/ 450                        |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/P/ 477 |   | Practical based on SUB/DSC/T/ 451                        |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/T/ 452 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSC/T/ 453 |   | Theory Course  | 2                             |           | 2                |           | 2+2+<br>2=06     |
|   | SUB/DSC/P/ 478 |   | Practical based on SUB/DSC/T/ 452 and SUB/DSC/T/ 453 and |                               | 4         |                  | 2         |                  |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T/ 450 and SUB/DSE/T/ 451) and corresponding Practicals | SUB/DSE/T/ 450 |   | Theory Course  | 2                             |           | 2                |           | 2+2=04           |
|   | SUB/DSE/T/ 451 |   | Theory Course  | 2                             |           | 2                |           |                  |
|   | SUB/DSE/P/ 476 |   | Practical based on SUB/DSE/T/ 450                        |                               | 4         |                  | 2         |                  |
|   | SUB/DSE/P/ 477 |   | Practical based on SUB/DSE/T/ 451                        |                               | 4         |                  | 2         |                  |
| OJT   | SUB/OJT/P/ 476 |   | 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.**

SUB/DSC/T/400 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/401 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/426 : This is a 2 credit practical course based on SUB/DSC/T/400  
SUB/DSC/P/427 : This is a 2 credit practical course based on SUB/DSC/T/401  
SUB/DSC/T/402 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/403 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/428 : This is a 2 credit practical course based on SUB/DSC/T/402 and SUB/DSC/T/403

SUB/DSC/T/450 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/451 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/476 : This is a 2 credit practical course based on SUB/DSC/T/450  
SUB/DSC/P/477 : This is a 2 credit practical course based on SUB/DSC/T/451  
SUB/DSC/T/452 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/453 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/478 : This is a 2 credit practical course based on SUB/DSC/T/452 and SUB/DSC/T/453

### **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.**

**DSC/DSE/T/400** : This is a 2 credit discipline specific course ( elective) related to Major  
**DSC/DSE/T/401** : This is a 2 credit discipline specific course ( elective) related to Major  
**DSC/DSE/P/426**: This is a 2 credit practical course based on DSC/DSE/T/400  
**DSC/DSE/P/427**: This is a 2 credit practical course based on DSC/DSE/T/401

**DSC/DSE/T/450** : This is a 2 credit discipline specific course ( elective) related to Major  
**DSC/DSE/T/451** : This is a 2 credit discipline specific course ( elective) related to Major  
**DSC/DSE/P/476**: This is a 2 credit practical course based on DSC/DSE/T/450  
**DSC/DSE/P/477**: This is a 2 credit practical course based on DSC/DSE/T/451

### **3) Research Methodology**

SUB/RM/T/400 : This is a 4 credit theory course based on Research Methodology

### **4) On Job Training**

SUB/OJT/P/476 : This is a 4 credit practical course based on On Job Training

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

| Course Type   | Course Code     | Examination Code ( To be given by respective BoS) | Course Name                        | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits    |
|---|-----------------|---|------------------------------------|-------------------------------|-----------|------------------|-----------|------------------|
|   |                 |   |                                    | Theory                        | Practical | Theory           | Practical |                  |
| Major ( Core) Mandatory DSC   | SUB/DSC/T/ 400  |   | Theory Course                      | 2                             |           | 2                |           | 2+2+2+2 + 2 = 10 |
|   | SUB/DSC/T/ 401  |   | Theory Course                      | 2                             |           | 2                |           |                  |
|   | SUB/DSC/P/ 426  |   | Practical based on SUB/DSC/T/ 400  |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/P/ 427  |   | Practical based on SUB/DSC/T/ 401  |                               | 4         |                  | 2         |                  |
|   | SUB/DSC/T/ 402  |   | Theory Course                      | 2                             |           | 2                |           |                  |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T / 400 and SUB/DSE/T / 401) and corresponding Practicals | SUB/DSE/T / 400 |   | Theory Course                      | 2                             |           | 2                |           | 2+2=04           |
|   | SUB/DSE/T / 401 |   | Theory Course                      | 2                             |           | 2                |           |                  |
|   | SUB/DSE/P / 426 |   | Practical based on SUB/DSE/T / 400 |                               | 4         |                  | 2         |                  |
|   | SUB/DSE/P / 427 |   | Practical based on SUB/DSE/T / 401 |                               | 4         |                  | 2         |                  |
| Research Methodology  | SUB/RM/T/ 400   |   | Research Methodology               | 4                             |           | 4                |           | 04               |
| Research Project  | SUB/RP/P/ 426   |   | Research Project-I                 |                               | 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     | Examination Code ( To be given by respective BoS) | Course Name                        | Teaching Scheme ( Hrs / Week) |           | Credits Assigned |           | Total Credits    |
|---|-----------------|---|------------------------------------|-------------------------------|-----------|------------------|-----------|------------------|
|   |                 |   |                                    | Theory                        | Practical | Theory           | Practical |                  |
| Major ( Core) Mandatory DSC   | SUB/ DSC/T/ 450 |   | Theory Course                      | 2                             |           | 2                |           | 2+2+2+2 + 2 = 10 |
|   | SUB/ DSC/T/ 451 |   | Theory Course                      | 2                             |           | 2                |           |                  |
|   | SUB/ DSC/P/ 476 |   | Practical based on SUB/ DSC/T/ 450 |                               | 4         |                  | 2         |                  |
|   | SUB/ DSC/P/ 477 |   | Practical based on SUB/ DSC/T/ 451 |                               | 4         |                  | 2         |                  |
|   | SUB/ DSC/T/ 452 |   | Theory Course                      | 2                             |           | 2                |           |                  |
| Discipline Specific Electives ( DSE) (Choose any one from SUB/DSE/T / 450 and SUB/DSE/T / 451) and corresponding Practicals | SUB/DSE/T / 450 |   | Theory Course                      | 2                             |           | 2                |           | 2+2=04           |
|   | SUB/DSE/T / 451 |   | Theory Course                      | 2                             |           | 2                |           |                  |
|   | SUB/DSE/P / 476 |   | Practical based on SUB/DSE/T / 450 |                               | 4         |                  | 2         |                  |
|   | SUB/DSE/P / 477 |   | Practical based on SUB/DSE/T / 451 |                               | 4         |                  | 2         |                  |
| Research Project  | SUB/RP/P / 476  |   | Research Project-II                |                               | 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.

SUB/DSC/T/400 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/401 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/426 : This is a 2 credit practical course based on SUB/DSC/T/400  
SUB/DSC/P/427 : This is a 2 credit practical course based on SUB/DSC/T/401  
SUB/DSC/T/402 : This is a 2 credit theory course corresponding to Major ( core) subject

SUB/DSC/T/450 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/T/451 : This is a 2 credit theory course corresponding to Major ( core) subject  
SUB/DSC/P/476 : This is a 2 credit practical course based on SUB/DSC/T/450  
SUB/DSC/P/477 : This is a 2 credit practical course based on SUB/DSC/T/451  
SUB/DSC/T/452 : 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.**

DSC/DSE/T/400 : This is a 2 credit discipline specific course ( elective) related to Major  
DSC/DSE/T/401 : This is a 2 credit discipline specific course ( elective) related to Major  
DSC/DSE/P/426: This is a 2 credit practical course based on DSC/DSE/T/400  
DSC/DSE/P/427: This is a 2 credit practical course based on DSC/DSE/T/401

DSC/DSE/T/450 : This is a 2 credit discipline specific course ( elective) related to Major  
DSC/DSE/T/451 : This is a 2 credit discipline specific course ( elective) related to Major  
DSC/DSE/P/476: This is a 2 credit practical course based on DSC/DSE/T/450  
DSC/DSE/P/477: This is a 2 credit practical course based on DSC/DSE/T/451

### 3) Research Methodology

SUB/RM/T/400 : This is a 4 credit theory course based on Research Methodology

### 4) Research Project ( RP):

SUB/RP/P/426 : This is a 4 credit practical course based on Research Project-I

SUB/RP/P/476: This is a 8 credit practical course based on Research Project-II

## 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 ( remaining years of the degree programme) 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 (from Basket 2 of other faculty).**
- 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) (**Basket 3**), 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 Contents:

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

|  |  |                              |
|--|--|------------------------------|
| <b>SUB/DSC/T/100 : ( Title of Paper).....</b>  |  |                              |
| Total Credits : 02<br>Maximum Marks : 50   |  | Total Contact Hours : 30 Hrs |
| <b>Learning Objectives of the Course:</b><br><br>i) .....<br>ii) .....<br>iii).....<br>iv) .....<br>v) .....   |  |                              |
| <b>Course Outcomes ( COs) :</b><br>After completion of the course, students will be able to -<br><br>i) .....<br>ii) .....<br>iii).....<br>iv) .....<br>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><br>1. Name Authors (as appear on the book), “Title of text Book”, Vol..., Edition, Name of Publisher, Year of Publications<br>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) : Faculty of Science and Technology**

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 and resources in the respective college).

**Please note that during 1<sup>st</sup> and 2<sup>nd</sup> Semester students shall choose any three subjects (from given 07 groups by choosing not more than one subject from any group) as Major 1, Major 2 and Major 3 (Based on the available options and resources in the respective college).**

| <b>Group No.</b>           | <b>Subjects</b>                          |
|----------------------------|--|
| <b>Group-1</b>             | Chemistry                                |
| <b>Group-2</b>             | Biochemistry                             |
|                            | Physics                                  |
| <b>Group-3</b>             | Botany                                   |
|                            | Mathematics                              |
| <b>Group-4</b>             | Zoology                                  |
|                            | Statistics                               |
| <b>Group-5</b>             | Computer Science                         |
|                            | Biotechnology                            |
| <b>Group-6</b>             | Microbiology                             |
|                            | Electronics                              |
| <b>Group-7</b>             | Agrochemical & Fertilizer                |
|                            | Analytical Chemistry                     |
|                            | Environmental Science                    |
|                            | Fishery Science                          |
|                            | Geology                                  |
|                            | Horticulture                             |
|                            | Industrial Chemistry                     |
|                            | Polymer Chemistry                        |
|                            | Automobile Technology                    |
|                            | Bioinformatics                           |
|                            | Data Science                             |
|                            | Forensic Science                         |
|                            | Forensic Science & Cyber Securities      |
|                            | Home Science                             |
|                            | Information Technology                   |
|                            | Networking And Multimedia                |
|                            | Non-Conventional And Conventional Energy |
|                            | Refrigeration And Air Conditioning       |
|                            | Workshop Technology                      |
|                            | Computer Application                     |
| Dairy Science & Technology |  |
| Instrumentation Practice   |  |

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 GE/OE Courses: 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 any one GE/OE course 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 Course                             |
|--------------------------|--|---|---|
| 1 <sup>st</sup> Semester | 1  | BOS in Botany                             | <b>Seed Preservation Techniques</b>             |
|                          | 2  | BOS in Chemistry                          | <b>Herbal Chemistry –I</b>                      |
|                          |  |   | <b>Food Safety, Adulterations and Detection</b> |
|                          |  |   | <b>Plastic Waste Management</b>                 |
|                          | 3  | BOS in Mathematics                        | <b>Business Mathematics-I</b>                   |
|                          | 4  | BOS in Physics                            | <b>Everyday Physics</b>                         |
|                          |  |   | <b>Differential Equation</b>                    |
|                          |  |   | <b>Artificial Intelligence</b>                  |
|                          | 5  | BOS in Zoology                            | <b>Vector disease and Management</b>            |
|                          | 6  | BOS in Electronics                        | <b>Electrical Equipment Maintenance-I</b>       |
|                          | 7  | BOS in Fishery Science                    | <b>Endocrinology and Physiology of Fishes</b>   |
|                          | 8  | BOS in Microbiology                       | <b>Microbial Biotechnology</b>                  |
|                          | 9  | Ad Hoc Board in Statistics                | <b>Introduction to Statistics</b>               |
|                          | 10   | Ad hoc Board in Industrial Chemistry      | <b>General Safety Aspects</b>                   |
| 11                       | Ad hoc Board in Dairy Science & Technology       | <b>Goat Farming</b>                       |   |
| 12                       | Ad hoc Board in Biotechnology and Bioinformatics | <b>Introduction to Biotechnology</b>      |   |
|                          |  | <b>Overview of Bioinformatics</b>         |   |
| 13                       | Ad hoc Board in Biochemistry                     | <b>Biochemistry of Health and Disease</b> |   |
| 14                       | Ad hoc Board in Home Science                     | <b>Principles Of Food Processing</b>      |   |

|    |                         |   |  |
|----|-------------------------|---|--|
|    | 15                      | Ad Hoc Board in Agrochemical Fertilizers, Horticulture, Dry land Agriculture                    | <b>Introduction to Fertilizers</b><br><b>Indoor Plants and Interior Scalping</b> |
|    | 16                      | Ad hoc Board in Forensic Science  | <b>Criminalistics</b><br><b>Introduction to Forensic Science</b>                 |
|    | 17                      | Ad Hoc Board in Computer Science  | <b>Cyber Security</b>  |
|    |                         |   | <b>Power Point Presentation and AI</b>   |
|    |                         |   | <b>Fundamentals of Information Technology</b>                                    |
|    | 18                      | Ad Hoc Board in Networking and Multimedia   | <b>Introduction to Google Workspace-Part1</b>                                    |
|    | 19                      | Ad Hoc Board in Environmental Science   | <b>Ecology and Ecosystem Management</b>  |
|    | 20                      | Ad hoc Board in Automobile Technology / Workshop Technology / Refrigerator and Air Conditioning | <b>Introduction of Automobile</b>  |
| 21 | Ad hoc Board in Geology | <b>Basic Earth Interior &amp; Exterior</b>  |  |

### 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                              | <b>Pomology</b>  |
|                          | 2                      | BOS in Chemistry                           | <b>Herbal Chemistry -II</b>  |
|                          |                        |  | <b>Dairy Chemistry</b>   |
|                          |                        |  | <b>Basic concepts, applications, and Socioenvironmental impact of polymers</b> |
|                          | 3                      | BOS in Mathematics                         | <b>Matrices</b>  |
|                          | 4                      | BOS in Physics                             | <b>Physics in Sports</b>   |
|                          |                        |  | <b>Differential Calculus</b>   |
|                          |                        |  | <b>Semiconductor Devices</b>   |
| 5                        | BOS in Zoology         | <b>Dairy Production Technology</b>         |  |
| 6                        | BOS in Electronics     | <b>Electrical Equipment Maintenance-II</b> |  |
| 7                        | BOS in Fishery Science | <b>Aquatic pollution</b>                   |  |
| 8                        | BOS in Microbiology    | <b>Food Fermentation</b>                   |  |

|  |    |   |  |
|--|----|---|--|
|  | 9  | Ad Hoc Board in Statistics  | <b>Demography and Vital Statistics</b>         |
|  | 10 | Ad hoc Board in Industrial Chemistry  | <b>Industrial Safety Aspects</b>               |
|  | 11 | Ad hoc Board in Dairy Science & Technology  | <b>Poultry Farming</b>                         |
|  | 12 | Ad hoc Board in Biotechnology and Bioinformatics  | <b>Agricultural Biotechnology</b>              |
|  |    |   | <b>Introduction to Bioinformatics Software</b> |
|  | 13 | Ad hoc Board in Biochemistry  | <b>Nutrition Science</b>                       |
|  | 14 | Ad hoc Board in Home Science  | <b>Home Based Catering</b>                     |
|  | 15 | Ad Hoc Board in Agrochemical Fertilizers, Horticulture, Dry land Agriculture                    | <b>Pest and Pesticides</b>                     |
|  |    |   | <b>Landscaping and Garden Designing</b>        |
|  | 16 | Ad hoc Board in Forensic Science  | <b>Forensic Handwriting Identification</b>     |
|  | 17 | Ad Hoc Board in Computer Science  | <b>E-Commerce and E-Contracts</b>              |
|  |    |   | <b>Technical Writing using Word and AI</b>     |
|  |    |   | <b>Cyber Security</b>                          |
|  |    |   | <b>E-Commerce</b>                              |
|  | 18 | Ad Hoc Board in Networking and Multimedia   | <b>Google workspace – part –II</b>             |
|  | 19 | Ad Hoc Board in Environmental Science   | <b>Microbial Aspect of Environment</b>         |
|  | 20 | Ad hoc Board in Automobile Technology / Workshop Technology / Refrigerator and Air Conditioning | <b>Two wheeler servicing</b>                   |
|  | 21 | Ad hoc Board in Geology   | <b>Geological land form</b>                    |

### **Basket 3 : Indian Knowledge System (IKS)**

This Basket will have list of Indian Knowledge System (IKS) courses which will be common for all the faculty (Available on university website)

## Coding Scheme:

Three letter SUB code is to be given as per the following **Table 1**

**Table 1**

| <b>SUB Code</b> | <b>Subject</b>                           |
|-----------------|--|
| BOT             | Botany                                   |
| CHE             | Chemistry                                |
| ANC             | Analytical Chemistry                     |
| POC             | Polymer Chemistry                        |
| MAT             | Mathematics                              |
| PHY             | Physics                                  |
| NCC             | Non-Conventional and Conventional Energy |
| INP             | Instrumentation Practice                 |
| ZOO             | Zoology                                  |
| ELE             | Electronics                              |
| FIS             | Fishery Science                          |
| MIC             | Microbiology                             |
| STA             | Statistics                               |
| INC             | Industrial Chemistry                     |
| DST             | Dairy Science & Technology               |
| BIT             | Biotechnology                            |
| BII             | Bioinformatics                           |
| BIC             | Biochemistry                             |
| HOS             | Home Science                             |
| AGF             | Agrochemical Fertilizers                 |
| HOR             | Horticulture                             |
| FOS             | Forensic Science                         |
| FSC             | Forensic Science & Cyber Security        |
| COS             | Computer Science                         |
| COA             | Computer Application                     |
| INT             | Information Technology                   |
| DAS             | Data Science                             |
| NEM             | Networking and Multimedia                |
| ENS             | Environmental Science                    |
| AUT             | Automobile Technology                    |
| WOT             | Workshop Technology                      |
| REA             | Refrigerator and Air Conditioning        |
| GEO             | Geology                                  |

Three digit codes for various papers /courses of all the semesters will be as below (Table 2 and Table 3). Course codes in the structure are given as per Table 2 and Table 3.

**Table 2:**

| <b>1<sup>st</sup> Sem</b>  | <b>2<sup>nd</sup> Sem</b>  | <b>3<sup>rd</sup> Sem</b>  | <b>4<sup>th</sup> Sem</b>  |
|--|--|--|--|
| <b>Codes will starts from 100<br/>(All vertical codes will start from 100 to accommodate more number of courses)</b> | <b>Codes will starts from 150<br/>(All vertical codes will start from 150 to accommodate more number of courses)</b> | <b>Codes will starts from 200<br/>(All vertical codes will start from 200 to accommodate more number of courses)</b> | <b>Codes will starts from 250<br/>(All vertical codes will start from 250 to accommodate more number of courses)</b> |
| Major (DSC)<br>Theory : 100 onwards<br>Practicals : 126 onwards  | Major (DSC)<br>Theory : 150 onwards<br>Practicals : 176 onwards<br>onwards   | Major (DSC):<br>Theory : 200 onwards<br>Practicals : 226 onwards   | Major (DSC) :<br>Theory : 250 onwards<br>Practicals : 276 onwards  |
| Major(DSE) :<br>Theory : 100 onwards<br>Practicals : 126 onwards   | Major(DSE) :<br>Theory : 150 onwards<br>Practicals : 176 onwards   | Major(DSE) :<br>Theory : 200 onwards<br>Practicals : 226 onwards   | Major(DSE) :<br>Theory : 250 onwards<br>Practicals : 276 onwards   |
| Minor : 100 onwards  | Minor : 150 onwards  | Minor : 200 onwards  | Minor : 250 onwards  |
| GE/OE : 100 onwards  | GE/OE : 150 onwards  | GE/OE : 200 onwards  | GE/OE : 250 onwards  |
| SEC/VSC :<br>Theory : 100 onwards<br>Practicals : 126 onwards  | SEC/VSC :<br>Theory : 150 onwards<br>Practicals : 176 onwards  | SEC/VSC :<br>Theory : 200 onwards<br>Practicals : 226 onwards  | SEC/VSC :<br>Theory : 250 onwards<br>Practicals : 276 onwards  |
| AEC/VEC/IKS : 100<br>onwards   | AEC/VEC/IKS : 150<br>onwards   | AEC/VEC/IKS : 200<br>onwards   | AEC/VEC/IKS : 250<br>onwards   |
| OJT/FP/CEP/RP :<br>Theory : 100 onwards<br>Practicals : 126 onwards  | OJT/FP/CEP/RP :<br>Theory : 150 onwards<br>Practicals : 176 onwards  | OJT/FP/CEP/RP :<br>Theory : 200 onwards<br>Practicals : 226 onwards  | OJT/FP/CEP/RP :<br>Theory : 250 onwards<br>Practicals : 276 onwards  |

**Table 3:**

| <b>5<sup>th</sup> Sem</b>  | <b>6<sup>th</sup> Sem</b>  | <b>7<sup>th</sup> Sem</b>  | <b>8<sup>th</sup> Sem</b>  |
|--|--|--|--|
| <b>Codes will starts from 300<br/>(All vertical codes will start from 300 to accommodate more number of courses)</b> | <b>Codes will starts from 350<br/>(All vertical codes will start from 350 to accommodate more number of courses)</b> | <b>Codes will starts from 400<br/>(All vertical codes will start from 400 to accommodate more number of courses)</b> | <b>Codes will starts from 450<br/>(All vertical codes will start from 450 to accommodate more number of courses)</b> |
| Major (DSC):<br>Theory : 300 onwards<br>Practicals : 326 onwards   | Major(DSC) :<br>Theory : 350 onwards<br>Practicals : 376 onwards   | Major (DSC):<br>Theory : 400 onwards<br>Practicals : 426 onwards   | Major(DSC) :<br>Theory : 450 onwards<br>Practicals : 476 onwards   |
| Major(DSE) :<br>Theory : 300 onwards<br>Practicals : 326 onwards   | Major(DSE) :<br>Theory : 350 onwards<br>Practicals : 376 onwards   | Major(DSE) :<br>Theory : 400 onwards<br>Practicals : 426 onwards   | Major(DSE) :<br>Theory : 450 onwards<br>Practicals : 476 onwards   |
| Minor : 300 onwards  | Minor : 350 onwards  | Minor : 400 onwards  | Minor : 450 onwards  |
| GE/OE : 300 onwards  | GE/OE : 350 onwards  | GE/OE : 400 onwards  | GE/OE : 450 onwards  |
| SEC/VSC :<br>Theory : 300 onwards<br>Practicals : 326 onwards  | SEC/VSC :<br>Theory : 350 onwards<br>Practicals : 376 onwards  | SEC/VSC :<br>Theory : 400 onwards<br>Practicals : 426 onwards  | SEC/VSC :<br>Theory : 450 onwards<br>Practicals : 476 onwards  |
| AEC/VEC/IKS : 300<br>onwards   | AEC/VEC/IKS : 350<br>onwards   | AEC/VEC/IKS : 400<br>onwards   | AEC/VEC/IKS : 450<br>onwards   |
| OJT/FP/CEP/RP :<br>Theory : 300 onwards<br>Practicals : 326 onwards  | OJT/FP/CEP/RP :<br>Theory : 350 onwards<br>Practicals : 376 onwards  | OJT/FP/CEP/RP :<br>Theory : 400 onwards<br>Practicals : 426 onwards  | OJT/FP/CEP/RP :<br>Theory : 450 onwards<br>Practicals : 476 onwards  |

Please note that Table 4 onwards (along with Table 2 and Table 3) will be used to develop a 12 digit code for each paper / course for examination purpose.

**Table 4 : Faculty Code**

|  | <b>Faculty Code</b> | <b>Faculty (1)</b>                   |
|--|---------------------|--------------------------------------|
|  | H                   | Faculty of Humanities                |
|  | M                   | Faculty of Commerce and Management   |
|  | S                   | Faculty of Science and Technology    |
|  | I                   | Faculty of Interdisciplinary Studies |

**Table 5 : Vertical Code**

| <b>Code</b> | <b>ABRIVATION</b> | <b>Specification/Course Type of Papers (2)</b>       |
|-------------|-------------------|--|
| A           | MMC               | Major Mandatory /Core Course (DSC)                   |
| B           | MEC               | Major Electives Course (DSE)                         |
| C           | MS                | Minor Subject  |
| D           | GE/OE             | Generic / Open Electives                             |
| E           | SEC/ VSC          | Skill Enhancement Courses / Vocational Skill Courses |
| F           | AEC               | Ability Enhancement Courses                          |
| G           | VEC               | Value Education Courses                              |
| H           | GIKS              | Indian Knowledge System (Generic)                    |
| I           | SIKS              | Indian Knowledge System (Subject specific)           |
| J           | OJT               | On Job Training                                      |
| K           | FP                | Field Project  |
| L           | CEP               | Community engagement and service                     |
| M           | CC                | Co-curricular Courses                                |
| N           | RM                | Research Methodology                                 |
| O           | RP                | Research Project                                     |

**Table 6 : Affiliation of Programme Code**

|  | <b>Affiliation of Programme Code</b> | <b>Affiliation of Programme (3)</b> |
|--|--------------------------------------|-------------------------------------|
|  | D                                    | University Department               |
|  | C                                    | Affiliated College                  |
|  | M                                    | Model College                       |



**Table 7 : Programme Code**

| <b>Programme Code</b> | <b>Programme Name (4-5)</b> |
|-----------------------|-----------------------------|
| 01                    | B.Voc                       |
| 02                    | BCA                         |
| 03                    | B.Sc.                       |
| 04                    | B.A.                        |
| 05                    | B.Com.                      |

**Table 8 : Subject Code**

| <b>Subject Code</b> | <b>Subject (6-7)</b>                     |
|---------------------|--|
| 01                  | Botany                                   |
| 02                  | Chemistry                                |
| 03                  | Analytical Chemistry                     |
| 04                  | Polymer Chemistry                        |
| 05                  | Mathematics                              |
| 06                  | Physics                                  |
| 07                  | Non-Conventional and Conventional Energy |
| 08                  | Instrumentation Practice                 |
| 09                  | Zoology                                  |
| 10                  | Electronics                              |
| 11                  | Fishery Science                          |
| 12                  | Microbiology                             |
| 13                  | Statistics                               |
| 14                  | Industrial Chemistry                     |
| 15                  | Dairy Science & Technology               |
| 16                  | Biotechnology                            |
| 17                  | Bioinformatics                           |
| 18                  | Biochemistry                             |
| 19                  | Home Science                             |
| 20                  | Agrochemical Fertilizers                 |
| 21                  | Horticulture                             |
| 22                  | Forensic Science                         |
| 23                  | Forensic Science & Cyber Security        |
| 24                  | Computer Science                         |
| 25                  | Computer Application                     |
| 26                  | Information Technology                   |
| 27                  | Data Science                             |
| 28                  | Networking and Multimedia                |
| 29                  | Environmental Science                    |
| 30                  | Automobile Technology                    |
| 31                  | Workshop Technology                      |
| 32                  | Refrigerator and Air Conditioning        |
| 33                  | Geology                                  |

**Table 9 : Paper / Course Code**

|                            |   |
|----------------------------|---|
| <b>Paper / Course Code</b> | <b>Course Name (8-10)<br/>( As per Table 2 and Table 3)</b> |
|----------------------------|---|

**Table 10 : Semester Code**

| <b>Semester No</b> | <b>Semester Code (11)</b> |
|--------------------|---------------------------|
| First Semester     | 1                         |
| Second Semester    | 2                         |
| Third Semester     | 3                         |
| Fourth Semester    | 4                         |
| Fifth Semester     | 5                         |
| Sixth Semester     | 6                         |
| Seventh Semester   | 7                         |
| Eighth Semester    | 8                         |

**Table 11 : Theory / Practical Code**

| <b>Theory / Practical<br/>( Laboratory) CODE</b> | <b>T/P (12)</b>                   |
|--|-----------------------------------|
| T  | Theory                            |
| P  | Practical ( Laboratory) / Project |
| S  | Seminar                           |

**Structure of 12 Digit examination code for each course / paper will be as below**

**(This kind of codes will be given to all the courses) for examination purpose**

| <b>Faculty Code</b> | <b>Vertical Code<br/>( Major/<br/>Minor<br/>etc)</b> | <b>Affiliation Code</b> | <b>Programme Code</b> |   | <b>Subject Code</b> |   | <b>Papers / Course code</b> |   |    | <b>Semester Code</b> | <b>Theory/<br/>Practical/<br/>Seminar code</b> |
|---------------------|--|-------------------------|-----------------------|---|---------------------|---|-----------------------------|---|----|----------------------|--|
| 1                   | 2  | 3                       | 4                     | 5 | 6                   | 7 | 8                           | 9 | 10 | 11                   | 12   |
|                     |  |                         |                       |   |                     |   |                             |   |    |                      |  |

**Example:**

1. Faculty Code ( e.g. Science and Technology) : S
2. Vertical Code ( e.g. Major ( DSC)): A
3. Affiliation Code ( e.g. Affiliated College) : C
4. Programme Code ( e.g. B.Sc.) : 03

5. Subject Code ( e.g. Botany): 01
6. Paper / Course code ( e.g. SUB/DSC/T/100) : 100
7. Semester Code ( 1<sup>st</sup> Semester) : 1
8. Theory / Practical / Seminar Code ( Theory): T

**For above example 12 digit examination code will be as below**

| Faculty Code | Vertical Code ( Major/ Minor etc) | Affiliation Code | Programme Code |   | Subject Code |   | Papers / Course code |   |    | Semester Code | Theory/ Practical/ Seminar code |
|--------------|-----------------------------------|------------------|----------------|---|--------------|---|----------------------|---|----|---------------|---------------------------------|
|              |                                   |                  | 4              | 5 | 6            | 7 | 8                    | 9 | 10 |               |                                 |
| 1            | 2                                 | 3                | 4              | 5 | 6            | 7 | 8                    | 9 | 10 | 11            | 12                              |
| S            | A                                 | C                | 0              | 3 | 0            | 1 | 1                    | 0 | 0  | 1             | T                               |

**Therefore, a 12 digit examination code will be as below**

**SAC03011001T**

**This kind of codes can be given to all the courses / papers in the structure by respective BoS.**

XXXXXXXXXXXXXXXXXXXX