|   | DHI NATIONAL OPEN UNIVERS<br>Registration Form for BSW II Year<br>January 2020 Session | form along with<br>fee to:<br>The Regional |
|---|--|--|
| Enrolment No.                               |  | Director of your<br>Regional Centre        |
| Regional Centre Code                        | Study Centre Code  | * as per schedule                          |
| 1. Name of the Student (in capital letters) | ):   |  |
| 2. Complete Address:                        |  |  |

**Details of fee paid:** Draft is to be made from any Scheduled Bank in the name of IGNOU payable at the city of the Regional Centre.

| a. | Name of the Bank  | Place |
|----|---|-------|
| b. | Bank Draft No   | Dated |
| c. | Amount ( <b>Rs.4800/-</b> + the late fee as applicable) |       |

I hereby register for the following courses for II year Bachelor of Social Work commencing January 2020.

| S. No. | Course Title   | Course Code | <b>Total Credits</b> |
|--------|--|-------------|----------------------|
| 1.     | Foundation Course in Science & Technology            | FST 1       | 8                    |
| 2.     | Social Work Intervention with Individuals and Groups | BSWE 2      | 8                    |
| 3.     | Introduction to Family Life Education                | BSWE 4      | 8                    |
| 4.     | Social Work Practicum-II                             | BSWL 2      | 8                    |

Total: 32 Credits

Note: 1) For all the Elective Courses of  $2^{nd}$  year, a student is eligible for appearing in his/her <u>first attempt</u> in Term-end examinations after one year of the commencement of the session.

2) Please keep a photo copy of this form for your record.

Yours faithfully,

Date: \_\_\_\_\_

| Signature of student _ |  |
|------------------------|--|
| E-Mail ID              |  |
| Mobile/ Ph. No.        |  |

## Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

## Note:

- (i) Students who sought admission to BSW 1<sup>st</sup> year in July 2019 cycle are not eligible for 2nd year re-registration in January 2020 Session. They are eligible for 2nd year registration in July 2020 session only, at the earliest.
- (ii) Old students of pre-January 2012 batches are not eligible for Re-registration in January 2020 Session.

|        | THE PEOPLE'S<br>UNIVERSITY | COURSE REGISTRATION FORM I<br>January 2020 Sessi  |                    | r form along with<br>fee to:<br>The Regional<br>Director of your |
|--------|----------------------------|---|--------------------|--|
| Enrolm | nent No.                   |   |                    | Regional Centre  |
| Region | al Centre Code             | Study Centre C  | Code               | * as per schedule  |
| 1. I   | Name of the Studer         | t (in capital letters):   |                    |  |
| 2. (   | Complete Address:          |   |                    |  |
| the Re | gional Centre.             | ft is to be made from any Scheduled Ban<br>Plac   |                    |  |
| b. B   | ank Draft No               | Date  | ed                 |  |
|        |                            | + the late fee as applicable)   |                    |  |
| S. No. | Cou                        | rse Title   | <b>Course Code</b> | Total Credits  |
| 1.     | Social Work Inter          | vention with Communities and Institutions   | BSWE 3             | 8  |
| 2.     | Introduction to H          | IV/AIDS   | BSWE 5             | 8  |
| 3.     | Substance Abuse            | and Counselling   | BSWE 6             | 8  |
| 4.     | Social Work Prac           | ticum-III   | BSWL 3             | 8  |
|        |                            |   | -                  | tal: 32 Credits  |
| Note : |                            | Elective Courses of $3^{rd}$ year, a student is elaminations after one year of the commen |                    |  |
| •      | 2) Please keep a           | photo copy of this form for your record.  |                    |  |
|        |                            |   |                    | Yours faithfully,  |
| Date:  |                            |   | Signature of stud  | dent   |

INDIRA GANDHI NATIONAL OPEN UNIVERSITY

Send this filled-in

Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

E-Mail ID \_\_\_\_\_ Mobile/ Ph. No.\_

Note:

ionou

- (i) Students who sought admission to BSW 2<sup>nd</sup> year in July 2019 batch are not eligible for 3rd year re-registration in January 2020 Session. They are eligible for 3rd year re-registration in July 2020 session only, at the earliest.
   (ii) Old the formation of the second second
- (ii) Old students of pre-January 2015 batches are not eligible for Re-registration in January 2020 Session.

| THE PEOPLE'S<br>UNIVERSITY | INDIRA GANDHI NATIONAL OPEN UNIVERSITY<br>COURSE REGISTRATION FORM FOR B.A.<br>II Year – January 2020 Session | Send this filled-in<br>form along with<br>fee to: |
|----------------------------|---|---|
| Enrolment No.              |   | The Regional<br>Director of your                  |
| Regional Centre Code       | Study Centre Code   | Regional Centre                                   |
| 1. Name of the Stu         | dent (in capital letters):  | * as per schedule                                 |
| 2. Complete Addre          | ss:   |   |
|                            |   |   |

Details of fee paid: Draft is to be made from any Scheduled Bank in the name of IGNOU payable at the city of the Regional Centre.

| a. | Name of the Bank  | Place |  |
|----|---|-------|--|
| b. | Bank Draft No   | Dated |  |
| c. | Amount ( <b>Rs.2400</b> /** + the late fee as applicable) |       |  |

I hereby register for the following courses for II year Bachelor of Arts commencing January 2020.

<u>Do not repeat any elective course taken during First Year.</u> FST (Foundation Course in Science & Technology), an 8 credit course, is compulsory. Students are advised to fill in the boxes provided by choosing 8 credits each from Group-3 & Group-4 and 8 credits either from Group-1 or Group-2.

Note : Students are advised not to opt for more than 8 credit course(s) from a single group.

\*\* Students opting B.A. Psychology courses, BPCL007 & BPCL008, are required to pay an extra fee of Rs.600/in addition to the programme fee of Rs.2400/- (total would be Rs.3000/-).

| S. No. | Course Title   | Course Code         | Total Credits     |
|--------|--|---------------------|-------------------|
| 1.     | Foundation Course in Science & Technology                        | FST 1               | 8                 |
| Please | write name of course(s) you want and its code:                   |                     |                   |
| 2      | Group – 3  |                     | 8                 |
| 3.     | Group – 4  |                     | 8                 |
| 4.     | Group – 1 or 2   |                     |                   |
|        |  | T                   | Jotal: 32 Credits |
| Note : | 1) Do not repeat the course that you have already opted for in 1 | <sup>st</sup> year. |                   |

2) For all the *Elective Courses of 2^{nd} year*, a student is eligible for appearing in his/her <u>first attempt</u> in **Term-end examinations** after one year of the commencement of the session.

3) Students can take <u>maximum 48 credits</u> only in a single discipline.

4) Please keep a photo copy of this form for your record.

Yours faithfully,

Date: \_\_\_\_\_ E-Mail ID \_\_\_\_\_

Signature of student \_\_\_\_\_\_ Mobile/ Ph. No.\_\_\_\_\_

#### Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

#### Note:

- Students who sought admission to BA 1<sup>st</sup> year in July 2019 cycle are not eligible for 2nd year re-registration in January 2020 Session. They are eligible for 2nd year registration in July 2020 session only, at the earliest.
- (ii) Old students of pre-January 2012 batches are not eligible for Re-registration in January 2020 Session.

| 9                  | THE PEOPLE'S<br>UNIVERSITY  | INDIRA GANDHI NATION<br>COURSE REGISTRAT<br>III Year – Janua   | ION FORM FOR B.A.  | Send this filled-in<br>form along with<br>fee to:<br>The Regional |
|--------------------|---|--|--|---|
| Enroln             | nent No.  |  |  | Director of your<br>Regional Centre                               |
| Region             | al Centre Code  | Study Centro   | e Code   | * as per schedule   |
| 1.                 | Name of the Student   | (in capital letters):  |  | as per schedule   |
| 2.                 | Complete Address: _   |  |  |   |
| Region             | nal Centre:   | is to be made from any Schedule  | _  |   |
|                    |   | Pla  |  |   |
|                    |   | Da   |  |   |
|                    |   | * + the late fee as applicable)  |  |   |
|                    |   | owing courses for III year Bachelor of<br>Psychology course BPCE022, are 1   | • •  |   |
| Do not<br>each fro | repeat any elective cour<br>om Group-5, 6 & A1 and  | /- (total would be Rs.3000/-).<br>rse taken during First and Second Year.<br>18 credits either from Group-1 or 2 or 3 o<br>opt for more than 8 credit Course(s) j  | r 4 or A1.   | provided by choosing 8 credits                                    |
| S. No.             | Course Title  |  | Course Code  | Total Credits   |
|                    |   |  |  | 8   |
| 1                  | Group – 5 _   |  |  |   |
| 1<br>2.            |   |  |  | 8   |
|                    | Group – 6 _   |  |  | 8<br>8  |
| 2.                 | Group – 6<br>Application<br>oriented Courses (C<br>Any one from the<br>following Groups :<br>Group-1 or Group-2   | Group – A1)<br>2 or Group-3 or   |  | -   |
| 2.<br>3.           | Group – 6<br>Application<br>oriented Courses (C<br>Any one from the _<br>following Groups :   | Group – A1)<br>2 or Group-3 or   |  | 8   |
| 2.<br>3.           | Group – 6<br>Application<br>oriented Courses (C<br>Any one from the<br>following Groups :<br>Group-1 or Group-2<br>Group-4 or Group-2<br>1) In case of choose<br>2) For all the <i>Elect</i><br>Term-end exam<br>3) Students can ta | Group – A1)<br>2 or Group-3 or   | <i>3<sup>rd</sup> year</i> , a student is eligible for appearing ement of the session. | 8 8 Total : 32 Credits dits in the concerned box.                 |
| 2.<br>3.<br>4.     | Group – 6<br>Application<br>oriented Courses (C<br>Any one from the<br>following Groups :<br>Group-1 or Group-2<br>Group-4 or Group-2<br>1) In case of choose<br>2) For all the <i>Elect</i><br>Term-end exam<br>3) Students can ta | Group – A1)<br>2 or Group-3 or<br>A1<br>ing 4-4 credit courses, you are advised to<br><i>ives and Application-oriented Courses of</i><br><b>inations after one year of the commence</b><br><b>ke <u>maximum of 48 credits</u> only in a sing</b> | <i>3<sup>rd</sup> year</i> , a student is eligible for appearing ement of the session. | 8 8 Total : 32 Credits dits in the concerned box.                 |

## Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

#### Note:

- (i) Students who sought admission to BA 2<sup>nd</sup> year in July 2019 batch are not eligible for 3rd year re-registration in January 2020 Session. They are eligible for 3rd year re-registration in July 2020 session only, at the earliest.
- (ii) Old students of pre-January 2015 batches are not eligible for Re-registration in January 2020 Session.



## INDIRA GANDHI NATIONAL OPEN UNIVERSITY Course Registration – Choice of courses – B.A II, III Year JANUARY 2020 SESSION

Grouping of Elective courses in Bachelors Degree Programme.

## GROUP –1

| S.No. | <b>Course Code</b> | Title of the Elective Course  | Cre           |
|-------|--------------------|---|---------------|
|       |                    |   | dits          |
| 1.    | BEGE 101           | From Language to Literature (Formerly EEG 1)  | 8             |
| 2.    | BHDE 101           | Hindi Gadya (Formerly EHD 1)  | 8             |
| 3.    | EHD 5              | Adhunik Bhartiya Sahitya: Nav Jagran aur Rashtriya Andolan                            | 8             |
| 4.    | EEC 11             | Fundamentals of Economics (Formerly EEC 1)  | 8             |
| 5.    | EHI 1              | Modern India 1857-1964  | 8             |
| 6.    | BHIE107            | Modern Europe : Mid 18 <sup>th</sup> to Mid 20 <sup>th</sup> Century (Formerly EHI 7) | 8             |
| 7.    | EPS 11             | Political Ideas and Ideologies (Formerly EPS 1)                                       | 8             |
| 8.    | EPA 1              | Administrative Theory   | 8             |
| 9.    | ESO 11             | The Study of Society (Formerly ESO 1)   | 8             |
| 10.   | ECO 1              | Business Organization   | 4             |
| 11.   | ECO 2              | Accountancy-1   | 4 = 8         |
| 12.   | MTE 1              | Calculus  | 4             |
| 13.   | MTE 4              | Elementary Algebra $>$ To be taken together   | 2 = 8         |
| 14.   | MTE 5              | Analytical Geometry   | 2             |
| 15.   | BSWE 4             | Introduction to Family Education  | 8             |
| 16.   | BPY 1              | Indian Philosophy Part 1  | 4 = 8         |
| 17.   | BPY 2              | Logic : Classical and Symbolic  | 4_70          |
| 18.   | BULE 1@            | Elements of Urdu Structure  | 8             |
| 19.   | BPC 1              | General Psychology  | 4 = 8         |
| 20.   | BPC 2              | Developmental Psychology $\int$ To be taken together                                  | 4_ <b>=</b> ° |
| 21.   | BGSE1              | Gender Sensitization : Society, Culture and Change                                    | 8             |

@Self-learning materials would be available in Urdu language only

## GROUP -2

| S.No. | <b>Course Code</b> | Title of the Elective Course   | Credits |
|-------|--------------------|--|---------|
| 1.    | BEGE 102           | The Structure of Modern English (Formerly EEG 2)                       | 8       |
| 2.    | EHD 2              | Hindi Kavya  | 8       |
| 3.    | BHDE 108           | Prayojanmulak Hindi (Formerly EHD 8)                                   | 8       |
| 4.    | BECE 2             | Indian Economic Development: Issues and perspectives (Formerly EEC 12) | 8       |
| 5.    | EHI 2              | India : Earliest Times to the 8 <sup>th</sup> Century AD               | 8       |
| 6.    | <b>BPSE 212</b>    | Government and Politics in India (Formerly EPS 12)                     | 8       |
| 7.    | BPAE 102           | Indian Administration (Formerly EPA 2)                                 | 8       |
| 8.    | BRDE 101           | Rural Development in India (Formerly ERD1)                             | 8       |
| 9.    | ESO 12             | Society in India (Formerly ESO 2)                                      | 8       |
| 10.   | MTE 2              | Linear Algebra   | 4       |
| 11.   | MTE 6              | Linear Algebra<br>Abstract Algebra To be taken together                | 4 = 8   |
| 12.   | BPY 3              | Ancient and Medieval Philosophy  | 4 = 8   |
| 13.   | BPY 4              | Religions of the World   | 4       |
| 14.   | BULE 2@            | History of Urdu Language   | 8       |
| 15.   | BPC 3              | Research Methods in Psychology To be taken together                    | 4  = 8  |
| 16.   | BPC 4              | Statistics in Psychology   | 4       |

@Self-learning materials would be available in Urdu language only

GROUP -3

| S.No.    | <b>Course Code</b> | Title of the Elective Course  | Credits           |
|----------|--------------------|---|-------------------|
| 1.       | BEGE 103           | Communication Skills in English (Formerly EEG 3)                      | 8                 |
| 2.       | <b>BEGE 108</b>    | Reading the Novel (Formerly EEG 8)                                    | 8                 |
| 3.       | EHD 3              | Hindi Sahitya Ka Itihas evam Sahitya Parichaya                        | 8                 |
| 4.       | EEC 13             | Elementary Statistical Methods and Survey Techniques (Formerly EEC 3) | 8                 |
| 5.       | EHI 3              | India from $8^{th} - 15^{th}$ Century AD                              | 8                 |
| 6.       | EPS 3              | Modern Indian Political Thought                                       | 8                 |
| 7.       | EPS 8              | Government and Politics in Australia                                  | 8                 |
| 8.       | EPA 3              | Development Administration  | 8                 |
| 9.       | ESO 13             | Sociological Thought (Formerly ESO 3)                                 | 8                 |
| 10.      | ECO 5              | Mercantile Law  | 4                 |
| 11.      | ECO 7              | Elements of Statistics  | 4                 |
| 12.      | MTE 7              | Advanced Calculus To be taken together                                | 4                 |
| 13.      | MTE 8              | Differential Equations $\int 10  \text{de taken together}$            | 4 = 8             |
| 14.      | BSWE 5             | Introduction to HIV/AIDS  | 8                 |
| 15.      | BPY 5              | Indian Philosophy : Part II   | 4 = 8             |
| 16.      | BPY 8              | Modern Western Philosophy J To be taken together                      | 4 0               |
| 17.      | BULE 3@            | Urdu Poetry   | 8                 |
| 18.      | BPC 5              | Theories of Personality   | $\frac{4}{4} = 8$ |
| 19.      | BPC 6              | Social Psychology To be taken together                                | 4 = 8             |
| @Self-le | arning materials   | would be available in Urdu language only * to be taken                | n together        |

## **GROUP**-4

| S.No. | <b>Course Code</b> | Title of the Elective Course                                | Credits   |
|-------|--------------------|---|-----------|
| 1.    | BEGE105            | Understanding Prose (Formerly EEG 5)                        | 8         |
| 2.    | BHDE 106           | Hindi Bhasha : Itihas aur Vartman (Formerly EHD 6)          | 8         |
| 3.    | BECE214            | Agricultural Development in India (Formerly EEC 14)         | 8         |
| 4.    | EHI 4              | India from 16 <sup>th</sup> to Mid 18 <sup>th</sup> Century | 8         |
| 5.    | EPS 7              | International Relations (Formerly EPS 4)                    | 8         |
| 6.    | <b>BPAE 104</b>    | Personnel Administration (Formerly EPA 4)                   | 8         |
| 7.    | ESO 14             | Society and Stratification (Formerly ESO 4)                 | 8         |
| 8.    | ECO 3              | Management Theory   | 4         |
| 9.    | ECO 6              | Economic Theory   | 4         |
|       | OR                 | OR  |           |
|       | ECO 13             | Business Environment  | 4         |
| 10.   | ECO 12             | Elements of Auditing  | $4 = 8^*$ |
| 11.   | ECO 14             | Accountancy-II (Formerly ECO 4) To be taken together        | 4         |
| 12.   | MTE 9              | Real Analysis   | $4 = 8^*$ |
| 13.   | MTE 10             | Numerical Analysis To be taken together                     | 40        |
| 14.   | BSWE 6             | Substance Abuse and Counseling                              | 8         |
| 15.   | BPY 6              | Metaphysics   | 4 = 8*    |
| 16.   | BPY 7              | Ethics To be taken together                                 | 40        |
| 17.   | BPYE 1             | Philosophy of Religion                                      | 4 = 8*    |
| 18.   | BPYE 2             | Tribal and dalit philosophy To be taken together            |           |
| 19.   | BULE 4@            | Urdu Fiction  | 8         |
| 20.   | BPCL 7#            | Practicals in Psychological Testing                         | 4         |
| 21.   | BPCL 8#            | Practicals in Experimental Psychology To be taken together  | 4 = 8*    |

# Compulsory courses for students of B.A. 'Major' in Psychology. These courses can not be opted by B.A. General students. @Self-learning materials would be available in Urdu language only. \* to be taken together

|       |             | GROUP –5  |         |
|-------|-------------|---|---------|
| S.No. | Course Code | Title of the Elective Course  | Credits |
| 1.    | BEGE 106    | Understanding Poetry (Formerly EEG 6)   | 8       |
| 2.    | BHDE 107    | Hindi Sanrachna (Formerly EHD 7)  | 8       |
| 3.    | BECE 016    | Economic Development: Comparative Analysis & Contemporary Issues (Formerly EEC 6) | 8       |
| 4.    | EHI 5       | India from Mid 18 <sup>th</sup> to Mid 19 <sup>th</sup> Century                   | 8       |
| 5.    | EPS 15      | South Asia : Economy, Society and Politics (Formerly EPS 5)                       | 8       |
| 6.    | EPA 5       | Financial Administration  | 8       |
| 7.    | ESO 15      | Society and Religion (Formerly ESO 5)   | 8       |
| 8.    | BCOE 108    | Company Law (Formerly ECO 8)  | 4       |
| 9.    | ECO 9       | Money, Banking & Financial Institution  | 4       |
| 10.   | MTE 11      | Probability and Statistics To be taken together                                   | 4 = 8   |
| 11.   | MTE 12      |   | 4       |
| 12.   | BPY 9       | Contemporary Western Philosophy<br>Epistemology                                   | 4 ] = 8 |
| 13.   | BPY 10      |   | 4       |
| 14.   | BULE 5@     | Urdu Non-fiction Prose  | 8       |
| 15.   | BPCE 14     | Psychopathology   | 4       |
|       | OR          | OR  |         |
|       | BPCE 15     | Industrial and Organizational Psychology  |         |
|       | OR          | OR  | = 8     |
|       | BPCE 17     | Introduction to Counselling Psychology  |         |
| 16.   | BPCE 11     | School Psychology   |         |
|       | OR          | OR To be taken together   | 4       |
|       | BPCE 13     | Motivation and Emotion  |         |
|       | OR          | OR  |         |
|       | BPCE 18     | Neuropsychology   |         |
|       | OR          | OR  |         |
|       | BPCE 19     | Environmental Psychology  |         |
|       | OR          | OR /  |         |
|       | BPCE 21     | Forensic Psychology   |         |

@Self-learning materials would be available in Urdu language only.

**GROUP**-6

|       |                 | GROUP -0   |         |
|-------|-----------------|--|---------|
| S.No. | Course Code     | Title of the Elective Course                                   | Credits |
| 1.    | <b>BEGE 104</b> | English for Business Communication (Formerly EEG 4)            | 8       |
| 2.    | <b>BEGE 107</b> | Understanding Drama (Formerly EEG 7)                           | 8       |
| 3.    | EHD 4           | Madhyakaleen Bharatiya Sahitya : Samaj aur Sanskriti           | 8       |
| 4.    | BECE 107        | Industrial Development in India (Formerly EEC 7)               | 8       |
| 5.    | EHI 6           | History of China and Japan 1840-1949                           | 8       |
| 6.    | EPS 6           | Govt. and Politics in East and South East Asia                 | 8       |
| 7.    | EPS 9           | Comparative Government and Politics                            | 8       |
| 8.    | EPA 6           | Public Policy  | 8       |
| 9.    | ESO 16          | Social Problems in India (Formerly ESO 6)                      | 8       |
| 10.   | ECO 10          | Elements of Costing  | 4       |
| 11.   | ECO 11          | Elements of Income Tax   | 4       |
| 12.   | MTE 13          | Discrete Mathematics   | 4] = 8  |
| 13.   | MTE 14          | Mathematical Modelling To be taken together                    | 4 ] = 0 |
| 14.   | BPY 11          | Philosophy of Human person                                     | 4 ]= 8  |
| 15.   | BPY 12          | Philosophy of Science and Cosmology To be taken together       | 4 ] 0   |
| 16.   | BULE 6@         | History of Urdu Literature                                     | 8       |
| 17.   | BPCE 22#        | Practicals in Clinical Psychology or Practicals in Counselling | 47      |
|       |                 | or Practicals in Industrial & Organisational Psychology        | = 8     |
| 18.   | BPCE 23#        | Internship in Psychology                                       | 4 ⅃     |

#Compulsory Courses for B.A. 'Major' in Psychology. These courses can not be opted by B.A. General students. @Self-learning materials would be available in Urdu language only.

Note: The courses BECE2, BECE214, BECE15, BECE16, BECE107, BPAE104, BPSE212, BEGE102, BEGE103, BEGE104, BEGE105, BEGE105, BEGE106, BEGE107, BEGE108, BEGE108, BEGA1, BHDA101, BRPA101, BEGA 102, BSHF101, BHDE101, BHDE106, BHDE107, BHDE108, BECE16, BRDE101, BHIE107 & BCOE108 are revised versions of EEC12, EEC14, EEC5, EEC6, EEC7, EPA 4, EPS12, EEG2, EEG3, EEG4, EEG5, EEG6, EEG7, EEG8, AFWE, AFWH, AWRH, AWRE, FHS1, EHD1, EHD6, EHD7, EHD8, ERD1, EHI7 & ECO8 respectively. If you have opted for any of these pre-revised courses earlier, please do not opt for the revised version. These will not be accounted in your credits. EEC-19 (formerly EEC-9) has been withdrawn from January 2010 session. EEC10 has also been withdrawn from January 2017 Session. BECE15 has also been withdrawn from January 2019 Session.

|  | Group – A1 | (Application-oriented | <b>Courses</b> ) |
|--|------------|-----------------------|------------------|
|--|------------|-----------------------|------------------|

|       |                    | Group – A1 (Application–oriented Courses)                         |                           |
|-------|--------------------|---|---------------------------|
| S.No. | <b>Course Code</b> | Title of the course   | Credits                   |
|       |                    | Application-oriented Courses in :                                 |                           |
| 1.    | BEGA1              | Introduction to the Media (formerly AFW(E)                        | 4                         |
|       |                    | OR  |                           |
|       | BHDA 101           | Samachar Patra aur Feature Lekhan (Hindi) (Formerly AFW(H)        | 4                         |
| 2.    | BEGA 102           | Writing for Radio (English) (Formerly AWR (E)                     | 4                         |
|       |                    | OR  |                           |
|       | BRPA 101           | Radio Lekhan (Hindi) (Formerly AWR (H)                            | 4                         |
| 3.    | ATR 1              | Translation (Hindi 4 credits + English 4 credits)                 | 8                         |
| 4.    | ACC 1              | Organising Childcare Services                                     | 8                         |
| 5.    | ANC 1              | Nutrition for the Community                                       | 8                         |
| 6.    | AHE 1              | Human Environment (6 Cr. Theory + 2 Cr. Project)                  | 8                         |
| 7.    | AMK 1*             | Marketing   | 4                         |
| 8.    | AED 1*             | Export Procedures and Documentation                               | 4                         |
| 9.    | AOM 1*             | Office Organisation & Management                                  | 4                         |
| 10.   | ASP 1*             | Secretarial Practice  | 4                         |
| 11.   | AMT 1              | Teaching of Primary School Mathematics                            | 8                         |
|       |                    | (6 Cr. Theory + 2 Cr. Project)                                    |                           |
| 12.   | ACS 1              | Consumer Studies  | 8                         |
| 13.   | CTE 3              | Teaching Strategies   | 4 $\Box$ To be taken      |
| 14.   | CTE 4              | Teaching English – Elementary School                              | $4 \perp \text{together}$ |
|       | OR                 | OR  |                           |
|       | CTE 5              | Teaching English – Secondary School                               | 4                         |
|       |                    | (with CTE 3 take any one, either CTE 4 or CTE 5)                  |                           |
| 15.   | AST 1**            | Statistical Techniques  | 4                         |
| 16.   | AOR 1**            | Operations Research   | 4                         |
| 17.   | AEC $1^{\Omega}$   | Environmental Chemistry (6 Cr. Theory+2Cr. Lab work)              | 8                         |
| 18.   | APM 1              | Integrated Pest Management (6 Cr. Theory+2Cr.Project)             | 8                         |
| 19.   | BCOA 1             | Business Communication and Entrepreneurship (English medium only) | 4                         |

\* Commerce based Application-oriented Courses. However, students are free to choose any Application-oriented Course(s) of their choice. If you opt for 4 credit AOCs, you must choose at least two 4 credit AOCs to make up a total of 8 credits of AOCs.

\*\* +2 level of mathematics is a pre-requisite

 $\Omega$  Only for B.Sc. students. CHE 01, CHE 02 and CHE 03(L) are the pre-requisite for this course; however, this is not a compulsory directive. B.A/B.Com/BTS students are advised not to opt for this AOC.

MTE 01 is a pre-requisite for MTE 07 to MTE 10 Note: MTE 07 is a pre-requisite for MTE 11 MTE 07 is a co-requisite for MTE 08 MTE 08 is a pre-requisite for MTE 14

| F                                  | OR B.A. STUD   | ENTS  | FOR B. Com. STUDENTS  |  |
|------------------------------------|--|---|---|--|
| Course                             | II Year  | III Year  | II Year   | III Year   |
| Foundation                         | Compulsory   | NIL   | Compulsory Course :   | NIL  |
| Course                             | course :   |   | FST-1 (8 Credits)   |  |
|                                    | FST-1 (8 Credits)  |   |   |  |
| Elective                           | 24 credits   | 16 or 24 credits  | Compulsory Courses :  | Compulsory Courses :                                   |
| Course                             | 8 credits from<br>Group 3 and 8<br>credits from<br>Group 4<br>8 credits from<br>Group 1 or 2 | 8 credits each<br>from Group 5 &<br>Group 6<br>8 credits either<br>from Group 1 to<br>4 or Group A1 | ECO3, ECO5, ECO7,<br>ECO 12 & ECO 14 (4 Cr.<br>each = 20 credits)<br><i>Optional Courses :</i><br>Any one of the following :<br>ECO 6 OR ECO 13 (4<br>credits each) | to Group 6 or Group A1.                                |
| Application-<br>oriented<br>Course | NIL  | <i>Compulsory:</i><br>8 to 16 credit<br>Course(s) from  | NIL   | Compulsory:<br>8 to 16 credit courses<br>from Group A1 |
| Course                             |  | Group-A1  |   | from Group-A1  |

Note: BA students can take <u>maximum of 48 credits</u> only in a single discipline.

| Enrolment No.                   | COURSE REGIST   | TIONAL OPEN UNIVE<br>RATION FORM FOR B.S<br>January 2020 Session |                     | Send this filled-in<br>form along with<br>fee to:<br>The Regional<br>Director of your<br>Regional Centre |
|---------------------------------|---|--|---------------------|--|
| Regional Centre Code            | Study   | Centre Code  |                     | * as per schedule  |
| 1. Name of the Student (in      | capital letters):   |  |                     |  |
| 2. Complete Address :           |   |  |                     |  |
|                                 |   |  |                     |  |
| -                               | is to be made from any Sch  | eduled Bank in the name  | of IGNOU paya       | ble at the city of the   |
| <b>Regional Centre.</b>         |   | Place  |                     |  |
|                                 |   |  |                     |  |
|                                 | he late fee as applicable)  |  |                     |  |
| Sciences), an 8 credit course,  | t any elective course taken during<br>is compulsory. You should fill in<br>the maximum number of credits in | n the boxes provided by indic                                    | ating your choice o |  |
| I hereby register for the follo | owing courses for II year Bachelo   | or of Science commencing J                                       | anuary 2020.        |  |
| SI.<br>No.                      | Discipline (Course Cod  | es)  | Course<br>Code      | Credits  |
|                                 |   |  |                     |  |

| 1. | Foundation Course in Humanities and Social Sciences                                      | BSHF101 | 8          |
|----|--|---------|------------|
| 2. | Chemistry : (from CHE 1 to 9, CHE 11L & MTE 3)   |         |            |
| 3. | Life Sciences : (from LSE 1 to LSE 8L & MTE 3)   |         | 24 Credits |
| 4. | Physics: (from BPHE101, BPHE102, BPHL103, BPHE104, PHE5, BPHE106, PHE7 to PHE10 & PHE15) |         |            |
| 5. | Mathematics : (from MTE 1, 2, 4 to 10)   |         |            |

Total: 32 credits

Note: 1) For both B.Sc.(Major) and B.Sc.(General) degrees, at least 25% of the total credits in elective courses from Physics, Chemistry and Life Sciences <u>must be from laboratory courses</u>. Do not repeat the course(s) that you have already opted for in 1<sup>st</sup> year. For all the *Elective Courses of 2<sup>nd</sup> year*, a student is eligible for appearing in her/his <u>first attempt</u> in Term-end examinations

- 2)
- 3) only after one year of the commencement of the session.
- 4) PLEASE KEEP A PHOTO COPY OF THIS FORM FOR YOUR RECORD.

Date: \_

|                      | Yours faithfully, |
|----------------------|-------------------|
| Signature of student |                   |
| E-Mail ID            |                   |
| Mobile/Ph. No.       |                   |

#### Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

#### Note :

- Students who sought admission to **B.Sc. 1<sup>st</sup> in July 2019** cycle are not eligible for 2nd year re-registration in (i) January 2020 Session. They are eligible for 2nd year registration in July 2020 session only, at the earliest.
- Old students of pre-January 2015 batches are not eligible for Re-registration in January 2020 Session. (ii)

| Enrolm   | INIVERSITY  | INDIRA GANDHI NATIONAL OPEN UNIVE<br>COURSE REGISTRATION FORM FOR B.S<br>III YEAR – January 2020 Session   |   | Send this filled-in<br>form along with<br>fee to:<br>The Regional<br>Director of your<br>Regional Centre |
|--|---|--|---|--|
| Region   | al Centre Code  | Study Centre Code  |   | * as per schedule  |
| 1. N   | Name of the Student   | (In capital letters) :   |   |  |
| 2. 0   | Complete Address :  |  |   |  |
|  | of fee paid:  |  |   |  |
| Draft<br>Centre  |   | m any Scheduled Bank in the name of IGNOU  | payable at the                                  | city of the Regional   |
|  |   |  |   |  |
| b. E   | ank Draft No  | Dated  |   |  |
|  |   | the late fee as applicable) he boxes provided by indicating your choice of Electives   |   |  |
|  |   | ber of elective credits in that Discipline <u>should not be n</u>  |   |  |
| credits<br>course  | or 16 credits worth<br>taken during the firs  | of Application-oriented Course(s) from Group-A1, listed  | d in Table II. Do                               |  |
| credits<br>course  | or 16 credits worth<br>taken during the firs  | of Application-oriented Course(s) from $\overline{G}$ roup-A1, listed and second years.  | d in Table II. Do                               |  |
| credits<br>course<br>I hereb                             | or 16 credits worth<br>taken during the firs  | of Application-oriented Course(s) from Group-A1, listed<br>at and second years.<br>Ilowing courses for III year B.Sc. commencing Januar<br>Discipline (Course Codes)   | d in Table II. Do<br>ry 2020.<br>Course         | o not repeat any elective  |
| credits<br>course<br>I hereb<br>S. No.                   | or 16 credits worth<br>taken during the first<br>y register for the fol<br>Chemistry<br>(from CHE 1 to CHE 12<br>Life Sciences : (fro   | of Application-oriented Course(s) from Group-A1, listed<br>at and second years.<br>Ilowing courses for III year B.Sc. commencing Januar<br>Discipline (Course Codes)   | d in Table II. Do<br>ry 2020.<br>Course<br>Code | Credits  |
| credits<br>course<br>I hereb<br>S. No.<br>1.             | or 16 credits worth<br>taken during the first<br>y register for the fol<br>Chemistry<br>(from CHE 1 to CHE 12<br>Life Sciences : (fro<br>(Zoology) Major] or [L<br>Physics  | of Application-oriented Course(s) from Group-A1, listed<br>and second years.<br>Ilowing courses for III year B.Sc. commencing Januar<br>Discipline (Course Codes)<br>L, MTE 3)<br>om LSE 1 to LSE 8L, MTE 3) or [LSE 1 to LSE 11L for B.Sc   | d in Table II. Do<br>ry 2020.<br>Course<br>Code | Credits  |
| credits<br>course<br>I hereb<br>S. No.<br>1.<br>2.       | or 16 credits worth<br>taken during the first<br>y register for the fol<br>Chemistry<br>(from CHE 1 to CHE 12<br>Life Sciences : (fro<br>(Zoology) Major] or [L<br>Physics  | of Application-oriented Course(s) from Group-A1, listed<br>at and second years.<br>Ilowing courses for III year B.Sc. commencing Januar<br>Discipline (Course Codes)<br>L, MTE 3)<br>om LSE 1 to LSE 8L, MTE 3) Or [LSE 1 to LSE 11L for B.Sc<br>SE 1 to LSE 8L and LSE 12 to LSE14L for B.Sc. (Botany) Major]<br>BPHL103, BPHE104, PHE5, BPHE106, PHE7 to PHE 16) | d in Table II. Do<br>ry 2020.<br>Course<br>Code | Credits  |
| credits<br>course<br>I hereb<br>S. No.<br>1.<br>2.<br>3. | or 16 credits worth<br>taken during the firs<br>y register for the fol<br>Chemistry<br>(from CHE 1 to CHE 12<br>Life Sciences : (fro<br>(Zoology) Major] or [L<br>Physics<br>(from BPHE101, BPHE102,<br>Mathematics | of Application-oriented Course(s) from Group-A1, listed<br>and second years.<br>Ilowing courses for III year B.Sc. commencing Januar<br>Discipline (Course Codes)<br>L, MTE 3)<br>om LSE 1 to LSE 8L, MTE 3) or [LSE 1 to LSE 11L for B.Sc<br>SE 1 to LSE 8L and LSE 12 to LSE14L for B.Sc. (Botany) Major]<br>BPHL103, BPHE104, PHE5, BPHE106, PHE7 to PHE 16)    | d in Table II. Do<br>ry 2020.<br>Course<br>Code | Credits  |

2) For all the *Elective and Application-oriented Courses of 3<sup>rd</sup> year*, a student is eligible for appearing in his/her <u>first attempt</u> in Term-end examinations only after one year of the commencement of the session.

- 3) Do not repeat the course(s) that you have already opted in the I/II year.
- 4) PLEASE KEEP A PHOTO COPY OF THIS FORM FOR YOUR RECORD.

Yours faithfully,

| Signature of student |  |
|----------------------|--|
| E-Mail ID            |  |
| Mobile/ Ph. No       |  |
|                      |  |

## Schedule for submission of Re-registration Form:

Learners are advised to submit the Re-Registration (RR) forms 'Online' only on the web portal www.ignou.ac.in.as per schedule being notified by the University.

## Note :

Date: \_

- (i) Students who sought admission to B.Sc. 2<sup>nd</sup> year in July 2019 cycle are not eligible for 2nd year registration in January 2020 Session. They are eligible for 2nd year registration in July 2020 session only, at the earliest.
- (ii) Old students of pre-January 2015 batches are not eligible for Re-registration in January 2020 Session.

# Guidelines for Course Registration of II/III Year, B.Sc

Table – I The elective courses available for B.Sc. students are given below:

| Discipline             | Title of the Elective Course  | Code  | Credits  |
|------------------------|---|---|--|
| Chemistry              | Atoms and Molecules<br>To be taken together   | CHE 1   | $2 \neg$ To be taken   |
|                        | Chemistry Lab-I   | CHE 3(L)  | $2 \_ together$  |
|                        | Inorganic Chemistry   | CHE 2   | 4  |
|                        | Physical Chemistry  | CHE 4   | 4  |
|                        | Organic Chemistry   | CHE 5   | 4  |
|                        | Organic Reaction Mechanism  | CHE 6   | 4  |
|                        | Chemistry Lab-II<br>Chemistry Lab-II  | CHE 7(L)  | $2 \neg$ To be taken   |
|                        | Chemistry Lab-III $\int 10  \text{de taken together}$   | CHE 8(L)  | $2 \_ \frac{10 \text{ coetalien}}{\text{together}}$  |
|                        | Biochemistry  | CHE 9   | 4  |
|                        | Spectroscopy  | CHE 10  | 4  |
|                        | Chemistry Lab-IV  | CHE 11(L)   | 4  |
|                        | Chemistry Lab-V   | CHE 12(L)   | 4  |
|                        | Mathematical Methods  | MTE 3   | 4  |
| Life Sciences          | Cell Biology  | LSE 1   | 4  |
|                        | Ecology   | LSE 2   | 4  |
|                        | Genetics  | LSE 3   | 4  |
|                        | Laboratory Course-I   | LSE 4(L)  | 4  |
|                        | Physiology  | LSE 5   | 4  |
|                        | Developmental Biology   | LSE 6   | 4  |
|                        | Taxonomy and Evolution  | LSE 0<br>LSE 7  | 4  |
|                        | Laboratory Course-II  | LSE 7<br>LSE 8(L)   | 4  |
|                        | Animal Diversity-I  | LSE 9   | 6  |
|                        |   | LSE 9<br>LSE 10   | To be taken  |
|                        |   |   |  |
|                        | Animal Diversity Laboratory   | LSE 11(L)   |  |
|                        | Plant Diversity-I   | LSE 12  | $\begin{bmatrix} 6\\ \zeta \end{bmatrix}$ To be taken  |
|                        | Plant Diversity-II<br>To be taken together  | LSE 13  | 0 together   |
|                        | Plant Diversity Laboratory  | LSE 14(L)   | 4 _ together   |
|                        | Mathematical Methods*   | MTE 3*  | 4  |
|                        |   |   |  |
|                        |   |   |  |
|                        | *MTE-03 (Mathematical Methods) can be taken as a Life   | Sciences elective fo  | r B Sc. degree However   |
|                        | *MTE-03 (Mathematical Methods) can be taken as a Life<br>will not be considered as a Life Sciences elective credit  |   |  |
|                        | will not be considered as a Life Sciences elective credit   |   |  |
| Physics                | will not be considered as a Life Sciences elective credit i<br>Botany.  | if you wish to do I   | B.Sc. (Major) in Zoology of  |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit</li> <li>Botany.</li> <li>Elementary Mechanics (Formerly PHE 1) To be taken</li> </ul>   | if you wish to do I<br>BPHE101  | 3.Sc. (Major) in Zoology of $2$ To be taken  |
| Physics                | will not be considered as a Life Sciences elective credit<br>Botany.<br>Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)  | if you wish to do I<br>BPHE101<br>BPHE 102  | B.Sc. (Major) in Zoology of $2$ To be taken together   |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>To be taken together</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103  | B.Sc. (Major) in Zoology of $\begin{bmatrix} 2\\ 2\\ -\end{bmatrix}$ To be taken together 4  |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4 To be taken  |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit</li> <li>Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)<br/>Mathematical Methods in Physics-II</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5   | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>4 2 To be taken<br>2 To be taken<br>2 together   |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit</li> <li>Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II</li> <li>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106   | B.Sc. (Major) in Zoology of<br>2 To be taken<br>4 together<br>2 To be taken<br>2 To be taken<br>2 together<br>4  |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit</li> <li>Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)</li> <li>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II</li> <li>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4<br>2 To be taken<br>2 together<br>4<br>4<br>4  |
| Physics                | will not be considered as a Life Sciences elective credit<br>Botany.<br>Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)<br>Physics Laboratory-I (Formerly PHE 3L)<br>Mathematical Methods in Physics-I (Formerly PHE 4)<br>Mathematical Methods in Physics-II<br>Thermodynamics and Statistical Mechanics (Formerly PHE 6)<br>Electric and Magnetic Phenomena<br>Physics Laboratory-II   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>4 together<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4   |
| Physics                | will not be considered as a Life Sciences elective credit<br>Botany.<br>Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)<br>Physics Laboratory-I (Formerly PHE 3L)<br>Mathematical Methods in Physics-I (Formerly PHE 4)<br>Mathematical Methods in Physics-II<br>Thermodynamics and Statistical Mechanics (Formerly PHE 6)<br>Electric and Magnetic Phenomena<br>Physics Laboratory-II<br>Optics   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9   | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4                                       |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics</li> </ul>  | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10   | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4   |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics<br/>Modern Physics</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11   | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4 To be taken<br>2 To be taken<br>2 together<br>4 4<br>4 4<br>4 4  |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11<br>PHE 12(L)  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4   |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics<br/>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Laboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> </ul>   | BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 10         PHE 3         PHE 11         PHE 12(L)         PHE 13   | 3.Sc. (Major) in Zoology of<br>2<br>2<br>To be taken<br>4<br>2<br>To be taken<br>2<br>To be taken<br>2<br>together<br>4<br>4<br>4<br>4<br>4<br>4<br>4                          |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Of Solids</li> <li>Mathematical Methods in Physics-III</li> </ul>   | BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 10         PHE 40         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 9         PHE 10         PHE 11         PHE 12(L)         PHE 13         PHE 14  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 together<br>4<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                        |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics<br/>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Laboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Caboratory-III</li> </ul>   | BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 10         PHE 3         PHE 11         PHE 12(L)         PHE 13   | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>4 together<br>4 2 To be taken<br>2 To be taken<br>2 together<br>4 4<br>4 4<br>4 4<br>4 4<br>4 4                                |
| Physics                | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Caboratory-III</li> <li>Physics Of Solids</li> <li>Mathematical Methods in Physics-III</li> </ul>   | BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 10         PHE 40         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 9         PHE 10         PHE 11         PHE 12(L)         PHE 13         PHE 14  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>4 To be taken<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4           |
| Physics<br>Mathematics | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> </ul>  | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11<br>PHE 12(L)<br>PHE 13<br>PHE 14<br>PHE 15  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>4 To be taken<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II<br/>Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II<br/>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Communication Physics</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11<br>PHE 12(L)<br>PHE 13<br>PHE 14<br>PHE 15<br>PHE 16  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 To be taken<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Communication Physics</li> <li>Calculus</li> <li>Linear Algebra</li> </ul>   | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11<br>PHE 12(L)<br>PHE 13<br>PHE 14<br>PHE 15<br>PHE 16<br>MTE 01<br>MTE 02  | 3.Sc. (Major) in Zoology of<br>2 To be taken<br>2 To be taken<br>2 To be taken<br>2 To be taken<br>2 together<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>To be taken together</li> </ul>  | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 11<br>PHE 12(L)<br>PHE 13<br>PHE 14<br>PHE 15<br>PHE 16<br>MTE 01<br>MTE 02<br>MTE 04  | <ul> <li>3.Sc. (Major) in Zoology of 2 To be taken together</li> <li>2 To be taken 2 To be taken 2 together</li> <li>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</li></ul>           |
|                        | will not be considered as a Life Sciences elective credit is Botany.          Elementary Mechanics (Formerly PHE 1)       To be taken together         Oscillations and Waves (Formerly PHE 2)       To be taken together         Physics Laboratory-I (Formerly PHE 3L)       Mathematical Methods in Physics-I (Formerly PHE 4)         Mathematical Methods in Physics-II       Thermodynamics and Statistical Mechanics (Formerly PHE 4)         Mathematical Methods in Physics-II       Thermodynamics and Statistical Mechanics (Formerly PHE 6)         Electric and Magnetic Phenomena       Physics Laboratory-II         Optics       Electrical Circuits and Electronics         Modern Physics       Physics Laboratory-III         Physics S of Solids       Mathematical Methods in Physics-III         Astronomy and Astrophysics       Communication Physics         Calculus       Linear Algebra         Elementary Algebra       To be taken together                     | if you wish to do I<br>BPHE101<br>BPHE 102<br>BPHL 103<br>BPHE 104<br>PHE 5<br>BPHE 106<br>PHE 7<br>PHE 8(L)<br>PHE 9<br>PHE 10<br>PHE 10<br>PHE 11<br>PHE 12(L)<br>PHE 13<br>PHE 14<br>PHE 15<br>PHE 16<br>MTE 01<br>MTE 02<br>MTE 04<br>MTE 05  | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena</li> <li>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics S of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>Elementary Algebra</li> <li>Analytical Geometry</li> <li>Abstract Algebra</li> </ul>   | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 02         MTE 05         MTE 06  | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                  |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Communication Physics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>Elementary Algebra</li> <li>Analytical Geometry</li> <li>To be taken together</li> <li>Advanced Calculus</li> </ul>   | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 02         MTE 04         MTE 05         MTE 07   | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Communication Physics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>Analytical Geometry</li> <li>Abstract Algebra</li> <li>Advanced Calculus</li> <li>Differential Equations</li> </ul>  | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 02         MTE 04         MTE 05         MTE 07         MTE 08  | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit is Botany.</li> <li>Elementary Mechanics (Formerly PHE 1)<br/>Oscillations and Waves (Formerly PHE 2)<br/>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena<br/>Physics Laboratory-II</li> <li>Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Communication Physics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>Elementary Algebra</li> <li>Analytical Geometry</li> <li>To be taken together</li> <li>Advanced Calculus</li> <li>Differential Equations</li> <li>Real Analysis</li> </ul>  | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 10         PHE 12(L)         PHE 13         PHE 15         PHE 16         MTE 01         MTE 05         MTE 07         MTE 08         MTE 09  | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |
|                        | will not be considered as a Life Sciences elective credit<br>Botany.          Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)<br>Physics Laboratory-I (Formerly PHE 3L)       To be taken<br>together         Mathematical Methods in Physics-I (Formerly PHE 4)         Mathematical Methods in Physics-II         Thermodynamics and Statistical Mechanics (Formerly PHE 6)         Electric and Magnetic Phenomena         Physics Laboratory-II         Optics         Electrical Circuits and Electronics         Modern Physics         Physics of Solids         Mathematical Methods in Physics-III         Astronomy and Astrophysics         Calculus         Linear Algebra         Analytical Geometry         Abstract Algebra         Advanced Calculus         Differential Equations         Real Analysis   | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 11         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 05         MTE 06         MTE 07         MTE 08         MTE 09         MTE 10   | 3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 2 To be taken 2 together 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  |
|                        | will not be considered as a Life Sciences elective credit<br>Botany.          Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)<br>Physics Laboratory-I (Formerly PHE 3L)       To be taken<br>together         Mathematical Methods in Physics-I (Formerly PHE 4)         Mathematical Methods in Physics-II         Thermodynamics and Statistical Mechanics (Formerly PHE 6)         Electric and Magnetic Phenomena         Physics Laboratory-II         Optics         Electrical Circuits and Electronics         Modern Physics         Physics of Solids         Mathematical Methods in Physics-III         Astronomy and Astrophysics         Communication Physics         Calculus         Linear Algebra         Analytical Geometry         Abstract Algebra         Advanced Calculus         Differential Equations         Real Analysis         Numerical Analysis         Probability and Statistics                                       | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 05         MTE 05         MTE 07         MTE 08         MTE 09         MTE 10         MTE 10   | B.Sc. (Major) in Zoology $\begin{pmatrix} 2 \\ 2 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$  |
|                        | <ul> <li>will not be considered as a Life Sciences elective credit Botany.</li> <li>Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) To be taken together</li> <li>Physics Laboratory-I (Formerly PHE 3L)</li> <li>Mathematical Methods in Physics-I (Formerly PHE 4)</li> <li>Mathematical Methods in Physics-II Thermodynamics and Statistical Mechanics (Formerly PHE 6)</li> <li>Electric and Magnetic Phenomena Physics Laboratory-II Optics</li> <li>Electrical Circuits and Electronics</li> <li>Modern Physics</li> <li>Physics Laboratory-III</li> <li>Physics Laboratory-III</li> <li>Physics of Solids</li> <li>Mathematical Methods in Physics-III</li> <li>Astronomy and Astrophysics</li> <li>Calculus</li> <li>Linear Algebra</li> <li>Analytical Geometry</li> <li>Abstract Algebra</li> <li>Advanced Calculus</li> <li>Differential Equations</li> <li>Real Analysis</li> <li>Probability and Statistics</li> <li>Linear Programming</li> </ul> | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 11         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 02         MTE 04         MTE 05         MTE 06         MTE 07         MTE 08         MTE 09         MTE 10         MTE 11         MTE 12 | B.Sc. (Major) in Zoology $\begin{pmatrix} 2 \\ 2 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$  |
|                        | will not be considered as a Life Sciences elective credit<br>Botany.          Elementary Mechanics (Formerly PHE 1)<br>Oscillations and Waves (Formerly PHE 2)<br>Physics Laboratory-I (Formerly PHE 3L)       To be taken<br>together         Mathematical Methods in Physics-I (Formerly PHE 4)         Mathematical Methods in Physics-II         Thermodynamics and Statistical Mechanics (Formerly PHE 6)         Electric and Magnetic Phenomena         Physics Laboratory-II         Optics         Electrical Circuits and Electronics         Modern Physics         Physics of Solids         Mathematical Methods in Physics-III         Astronomy and Astrophysics         Communication Physics         Calculus         Linear Algebra         Analytical Geometry         Abstract Algebra         Advanced Calculus         Differential Equations         Real Analysis         Numerical Analysis         Probability and Statistics                                       | if you wish to do I         BPHE101         BPHE 102         BPHL 103         BPHE 104         PHE 5         BPHE 106         PHE 7         PHE 8(L)         PHE 10         PHE 12(L)         PHE 13         PHE 14         PHE 15         PHE 16         MTE 01         MTE 05         MTE 05         MTE 07         MTE 08         MTE 09         MTE 10         MTE 10   | B.Sc. (Major) in Zoology $\begin{pmatrix} 2 \\ 2 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$  |

Table II : Group – A1 (Application–oriented Courses) : For III<sup>rd</sup> Year

| Table II: Group – AI (Application–oriented Courses): For III Teal |                      |   |                 |  |  |
|---|----------------------|---|-----------------|--|--|
| S.No.   | Course Code          | Title of the course   | Credits         |  |  |
| 1.  | BEGA 1               | Introduction to the Media (formerly AFW(E)  | 4               |  |  |
| 2.  | BHDA 101<br>BEGA 102 | Samachar Patra aur Feature Lekhan (Hindi) (Formerly AFW(H)<br>Writing for Radio (English) (Formerly AWR (E)<br>or | 4<br>4          |  |  |
|   | BRPA 101             | Radio Lekhan (Hindi) (Formerly AWR (H)  | 4               |  |  |
| 3.  | ATR 1                | Translation (Hindi 4 credits + English 4 credits)   | 8               |  |  |
| 4.  | ACC 1                | Organising Childcare Services   | 8               |  |  |
| 5.  | ANC 1                | Nutrition for the Community   | 8               |  |  |
| 6.  | AHE 1                | Human Environment (6 Cr. Theory + 2 Cr. Project)  | 8               |  |  |
| 7.  | AMK 1*               | Marketing   | 4               |  |  |
| 8.  | AED 1*               | Export Procedures and Documentation   | 4               |  |  |
| 9.  | AOM 1*               | Office Organisation & Management  | 4               |  |  |
| 10.   | ASP 1*               | Secretarial Practice  | 4               |  |  |
| 11.   | AMT 1                | Teaching of Primary School Mathematics<br>(6 Cr. Theory + 2 Cr. Project)  | 8               |  |  |
| 12.   | ACS 1                | Consumer Studies  | 8               |  |  |
| 13.   | CTE 3                | Teaching Strategies   | 4 To be taker   |  |  |
| 14.   | CTE 4                | Teaching English – Elementary School  | $4 \_ together$ |  |  |
|   | OR                   | OR  |                 |  |  |
|   | CTE 5                | Teaching English – Secondary School<br>(with CTE 3 take any one, either CTE 4 or CTE 5)                           | 4               |  |  |
| 15.   | AST 1**              | Statistical Techniques  | 4               |  |  |
| 16.   | AOR 1**              | Operations Research   | 4               |  |  |
| 17.   | AEC 1Ω               | Environmental Chemistry (6 Cr. Theory+2Cr. Lab work)  | 8               |  |  |
| 18.   | APM 1                | Integrated Pest Management (6 Cr. Theory+2Cr.Project)   | 8               |  |  |
| 19.   | BCOA 001             | Business Communication and Entrepreneurship (English medium only)   | 4               |  |  |

\* Commerce based Application-oriented Courses. However, students are free to choose any Application-oriented Course(s) of their choice. Among 4 credit AOC(s), they have to choose at least two 4 credit courses to make up to 8 credits in total.

\*\* 10+2 level of mathematics is a pre-requisite.

Ω Only for B.Sc. students. CHE 01, CHE 02 and CHE 03(L) are the pre-requisite for this course; however, this is not a compulsory directive. B.A/B.Com/BTS students are advised not to opt for this AOC.

#### **IMPORTANT NOTE**

While opting for a course, please keep the following pre-requisites and co-requisites in mind. A **co-requisite** refers to a course **to be taken together** with the course concerned, while a **pre-requisite course** should be opted for **before** studying the course concerned. Note that we recommend co-requisite and pre-requisite courses, so that you can follow the related courses easily. However, this is **not a compulsory directive**.

MTE 1 is a pre-requisite for MTE 7 to MTE 10.

MTE 7 is a pre-requisite for MTE 11.

MTE 7 is a co-requisite for MTE 8.

MTE 8 is a pre-requisite for MTE 14.

CHE 1 is a pre-requisite for CHE 4, CHE 5 and CHE10.

CHE 1 is a co-requisite for CHE 2.

CHE 2 is a pre-requisite for CHE 10.

CHE 4 is a pre-requisite for CHE 9.

CHE 5 is a pre-requisite for CHE6, CHE 9 and CHE 10.

BPHE 102 is a pre-requisite for PHE 9.

PHE 7 is a pre-requisite for PHE 10.

BPHE 101, BPHE 104 and PHE 5 are pre-requisites for PHE 11.

PHE 10 is a co-requisite for PHE 16. BPHE 104 and PHE 5 are pre-requisites for PHE 14.

CHE 1, CHE 2 and CHE 3(L) are the pre-requisites for AEC-1 course.

Since the Chemistry courses of IGNOU include quantitative techniques, we suggest that you take MTE 3, if you haven't studied Mathematics up to the +2 level. It will help you to cope better with these courses. However, if you plan to take any other Mathematics electives (MTE 1, 2, 4 to 14), you are not permitted to take MTE 3.

While doing so, remember that the combination of courses should be such that in any discipline you choose to study, you take at least 4 credits at a time. Therefore, if you opt for a 2-credit course, then you must opt for 2-credit courses from the same discipline.

The 2 credit courses **must be taken from the same discipline** in the following combinations:

|          |     | 1        |
|----------|-----|----------|
| CHE 1    | and | CHE 3(L) |
| CHE 7(L) | and | CHE 8(L) |
| BPHE 101 | and | BPHE 102 |
| BPHE 104 | and | PHE 5    |
| MTE 4    | and | MTE 5    |
|          |     |          |

You cannot take combinations of 2 credit courses from different disciplines. For example, you CANNOT take the following courses together:

| BPHE 101 | and | CHE 1  |
|----------|-----|--------|
| BPHE 102 | and | CHE 1  |
| BPHE 101 | and | CHE 3L |
| BPHE 104 | and | MTE 4  |
|          |     |        |

# **NOTE** that YOU MUST OPT FOR ELECTIVE COURSES FROM AT LEAST 2 DISCIPLINES in SCIENCE. YOU <u>CANNOT</u> OPT FOR ELECTIVE COURSES FROM MORE THAN 4 DISCIPLINES. You can opt for a *minimum* of 8 and a *maximum* of 48 credits in any one discipline, which you decide to study. DO NOT OPT FOR LESS THAN 8 CREDITS OR MORE THAN 48 CREDITS IN ANY ONE DISCIPLINE.

For both B.Sc. (Major) and B.Sc. degrees, <u>at least 25% of the total elective credits</u> in Physics, Chemistry and Life Sciences <u>must be from</u> <u>laboratory courses.</u>

Please choose your courses carefully so as to make meaningful combinations. You can consult your Counsellor(s)/ Coordinator, if you like. Students pursuing B.Sc. and **B.Sc.** (**Major**) in Chemistry, Mathematics, Botany, Zoology or Physics are free to choose any AOCs of their choice in the 3<sup>rd</sup> year. If you opt for AOCs worth 4 credits each from the list, choose **at least two** 4 credits AOCs to make up a total of 8 credits of AOCs.

## Table – III

B.Sc. (Major)

To obtain B.Sc. (Major) in any discipline, the **number of credits** that you opt for in the <u>elective courses</u> from that discipline, must be as given in the following table:

| Discipline  | <b>Total Credits</b> | Elective courses  |  |
|-------------|----------------------|---|--|
| Botany      | 48                   | LSE 1 to 8(L) and the <b>package* of LSE 12, 13 &amp; 14(L</b> )          |  |
| Chemistry   | 40 (Minimum)         | CHE 1 to CHE 12(L)  |  |
| Mathematics | 40 (Minimum)         | n) MTE 1, 2, 4 to 9 worth 28 credits are compulsory.                      |  |
|             |                      | Remaining 12 credits may be opted from MTE 10 to MTE 14                   |  |
| Physics     | 48                   | BPHE 101, BPHE 102, BPHL 103, BPHE 104, PHE 5, BPHE 106 to PHE 13 and any |  |
|             |                      | one elective from PHE-14 to PHE-16  |  |
| Zoology     | 48                   | LSE 1 to 8(L) and the package* of LSE 9, 10 & 11(L)                       |  |

\* Please note that the courses LSE 09, 10 & 11(L) are to be taken together as a package. You will not be allowed to opt for any individual course from the package. Similarly, LSE 12, 13 & 14(L) are also to be taken together as a package. YOU CANNOT OPT FOR MORE THAN 48 CREDITS IN ANY <u>ONE</u> DISCIPLINE.

#### B.Sc.

For any combination of Science Electives other than those given above, you will be awarded a B.Sc. degree.

For both B.Sc. (Major) and B.Sc. degrees, at least 25% of the total elective credits in Physics, Chemistry and Life Sciences must be from laboratory courses.

You can choose your courses in II & III year from the list of courses given in the table below:

Table – IV

| COURSE            | II YEAR   | III YEAR   |  |  |  |
|-------------------|---|--|--|--|--|
| FOUNDATION COURSE | Compulsory Course                               | NIL  |  |  |  |
|                   | BSHF-101  |  |  |  |  |
| ELECTIVE COURSES  | 24 Credits from :                               | 16 or 24 Credits from :                                  |  |  |  |
|                   | PHE - BPHE 101, BPHE 102, BPHL 103,             | PHE - BPHE 101, BPHE102, BPHL 103,                       |  |  |  |
|                   | PHE 4, 5, 6, 7, 8L, 9, 10 & 15                  | PHE 4, 5, 6, 7, 8L ,9, 10, 11, 12L, 13, 14, 15 & 16      |  |  |  |
|                   | CHE - 1, 2, 3L, 4, 5, 6, 7L, 8L, 9, 11L & MTE03 | CHE - 1, 2, 3L, 4, 5, 6, 7L, 8L, 9, 10, 11L, 12L & MTE03 |  |  |  |
|                   | LSE - 1, 2, 3,4L, 5,6, 7, 8L & MTE03            | LSE - 1, 2, 3, 4L, 5, 6, 7, 8L, MTE 3, LSE (9, 10 & 11L) |  |  |  |
|                   | MTE - 1, 2, 4, 5, 6, 7, 8, 9 & 10               | or (12, 13 & 14L)  |  |  |  |
|                   |   | MTE - 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 & 14        |  |  |  |
| APPLICATION-      |   | Compulsory:  |  |  |  |
| ORIENTED COURSES  | NIL   | 8 to 16 credit courses from Group-A1                     |  |  |  |
|                   |   |  |  |  |  |

#### PLEASE NOTE

1. You can take electives (56 or 64 credits) from a minimum of TWO and a maximum of FOUR science disciplines, viz. Physics, Chemistry, Life Sciences and Mathematics.

2. You can opt elective courses worth a **MINIMUM OF 8 CREDITS** and a **MAXIMUM OF 48 CREDITS** in any of the four disciplines: Physics, Chemistry, Life Sciences and Mathematics.

3. For both B.Sc. (Major) and B.Sc. degrees, <u>at least 25% of the total elective credits opted for</u> in Physics, Chemistry and Life Sciences <u>must be from laboratory courses</u>. For example, if you opt for a total 64 credits of electives in these 3 disciplines, at least 16 credits out of those 64 credits must be from laboratory courses. Otherwise your result will not be declared and the responsibility will be yours.

4. You cannot appear in the Term-End Examination of any course without getting registered for the same. Otherwise your result will not be declared and the responsibility will be yours.