

# INDIRA GANDHI NATIONAL OPEN UNIVERSITY Course Registration Form for B.A. II Year

Send this filled-in

form along with

January 2023 Session

					January 20				fee to:
Enrolr	ment No.								The Regional Director of your
Regio	nal Centre Co	ode		]	Study Centr	e Code	1 1 1		Regional Centre
			<u> </u>			L			* as per schedule
1.	Name of the	Student	(in capital l	etters):					
2.									
	ls of fee paid	d: Draft	is to be n	nade from	any Schedul	ed Bank ir	n the name of IG	NOU pa	yable at the city of the
_	Name of the	Bank				P	Place		
b.	Bank Draft N	lo				Γ	Dated		
c.	Amount (Rs.	<b>2400/-</b> +	the late fee	as applica	ble)				
	Group-1 or Gr Students are a	_	ot to opt for i	nore than 8	credit course(s)	from a singl	e group.		
pay a	n extra fee	of Rs.60	00/- in add	lition to t	he programm	e fee of Rs	s.2400/- (total wo	ould be I	S, and are required to Rs.3000/-)*.
pay a	nn extra fee	of Rs.60	00/- in add	lition to t	he programm	e fee of Rs	•	ould be F 23.	· •
<b>pay a</b> I herel	nn extra fee by register for	of Rs.60 the follo	00/- in add	lition to the ses for II ye	he programme ear Bachelor of A	e fee of Rs	encing January 20 Course Code	ould be F 23.	Rs.3000/-)*.
pay a I herel S. No. 1.	by register for Foundation  e write name	of Rs.60 the follo Course T	owing cours  Title  in Science	lition to the ses for II years.	he programmear Bachelor of A	e fee of Rs	s.2400/- (total wo	ould be F 23.	Rs.3000/-)*.  1 Credits  8
pay a I herel S. No. 1.	by register for Foundation	of Rs.60 the follo Course T	owing cours  Title  in Science	lition to the ses for II years.	he programmear Bachelor of A	e fee of Rs	encing January 20 Course Code	ould be F 23.	Rs.3000/-)*.
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### **Schedule for submission of Re-registration Form:**

E-Mail ID \_\_

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 from time to time.

Mobile/ Ph. No.\_\_



### INDIRA GANDHI NATIONAL OPEN UNIVERSITY

Course Registration Form for B.A. III Year January 2023 Session Send this filled-in

form along with

fee to:

Enro	lment No.	Director of yo Regional Cent	
Regi		* as per sched	
1.	Name of the Student (in capital letters):		
2.	Complete Address:		
	ils of fee paid: Draft is to be made from any Scheonal Centre:	duled Bank in the name of IGNOU payable at the city	of the
	•		of the
Reg	onal Centre:	Place	of the

\*\* Students opting B.A. Psychology(Major), will opt for course BPCE022, and are required to pay an extra fee of Rs.600/- in addition to the programme fee of Rs.2400/- (total would be Rs.3000/-)\*.

<u>Do not repeat any elective course taken during First and Second Year.</u> Students are advised to fill in the boxes provided by choosing 8 credits each from Group-5, 6 & A1 and 8 credits either from Group-1 or 2 or 3 or 4 or A1.

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

I hereby register for the following courses for III year Bachelor of Arts commencing January 2023.

S. No.	Course Title	Course Code	<b>Total Credits</b>			
1	Group – 5		8			
2.	Group – 6		8			
3.	Application - oriented Courses (Group – A1)		8			
4.	Any one from the		8 Total: 32 Credits			
* Thes	se courses are available for learners pursuing BA Major is	in Psychology.	Total : 32 Creats			
Note:	<ol> <li>Old students of pre-January 2018 batches are not eligible for Re-registration in January 2023 Session.</li> <li>In case of choosing 4-4 credit courses, you are advised to write all course codes to make up to 8 credits in the concerned box.</li> <li>Do not repeat the course that you have already opted for in 1<sup>st</sup> and 2<sup>nd</sup> years.</li> <li>For all the <i>Electives and Application-oriented Courses of 3<sup>rd</sup> year</i>, a student is eligible for appearing in his/her first attempt in Term-end examinations after one year of the commencement of the session.</li> <li>Students can take maximum 48 credits only in a single discipline.</li> <li>Please keep a photo copy of this form for your record.</li> </ol>					
	, , , , , , , , , , , , , , , , , , , ,		Yours faithfully,			

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

Date:

E-Mail ID \_\_

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 from time to time.

Signature of student \_\_\_

Mobile/ Ph. No.\_\_



### INDIRA GANDHI NATIONAL OPEN UNIVERSITY

### Course Registration – Choice of courses – B.A II, III Year January 2023 Session

Grouping of Elective courses in Bachelors Degree Programme.

### GROUP -1

S.No.	Course Code	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	Rusiness Organization	47
11.	ECO 2	Accountancy-1 To be taken together	4   # 8
12.	MTE 1	Calculus	4-
13.	MTE 4	Elementary Algebra To be taken together	$\begin{vmatrix} 2 \end{vmatrix} \neq 8$
14.	MTE 5	Analytical Geometry	2
15.	BSWE 4	Introduction to Family Education	8
16.	BPY 1	Indian Philosophy Part 1	$4 \exists 4 8$
17.	BPY 2	Logic: Classical and Symbolic To be taken together	4_ T
18.	BULE 1@	Elements of Urdu Structure	8
19.	BPC 1*	General Psychology	47 \ 8
20.	BPC 2*	Developmental Psychology To be taken together	4_] † 6
21.	BGSE1	Gender Sensitization : Society, Culture and Change	8

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

### **GROUP -2**

S.No.	Course Code	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.	<b>BPAE</b> 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	47
11.	MTE 6	Linear Algebra  To be taken together  Abstract Algebra	4 = 8
12.	BPY 3	Ancient and Medieval Philosophy	4 = 8
13.	BPY 4	Religions of the World  To be taken together	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 510 be taken together	4_

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### GROUP -3

S.No.	Course Code	Title of the Elective Course	Credits
1.	BEGE 103	Communication Skills in English (Formerly EEG 3)	8
2.	BEGE 108	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 <sup>th</sup> – 15 <sup>th</sup> 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 5 10 be taken together	4_] = 8
14.	BSWE 5	Introduction to HIV/AIDS	8
15.	BPY 5	Indian Philosophy: Part II	$\frac{4}{1} = 8$
16.	BPY 8	Modern Western Philosophy  To be taken together	4_] = 8
17.	BULE 3@	Urdu Poetry	8_
18.	BPC 5*	Theories of Personality To be talout together	$\frac{4}{1} = 8$
19.	BPC 6*	Social Psychology To be taken together	4_] - 8

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

\* to be taken together

### **GROUP** –4

S.No.	Course Code	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.	BPAE 104	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 7 F. 1 F.	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	4
14.	BSWE 6	Substance Abuse and Counseling	8
15.	BPY 6	Metaphysics	4 = 8
16.	BPY 7	Ethics To be taken together	4
17.	BPYE 1	Philosophy of Religion To be taken together	4 = 8
18.	BPYE 2	Tribal and dalit philosophy  To be taken together	4
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.

#### 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.	EPS 13 EPA 5	Financial Administration	8
7.	ESO 15	Society and Religion (Formerly ESO 5)	8
8.	BCOE 108	Company Law (Formerly ECO 8)	0 4
8. 9.	ECOE 108	Money, Banking & Financial Institution	4
	MTE 11	Probability and Statistics	4
10.	MTE 11	Linear Programming  To be taken together	$\begin{vmatrix} 4 \\ 4 \end{vmatrix} = 8 \begin{vmatrix} 1 \\ 1 \end{vmatrix}$
11.		Contemporary Western Philosophy	4—
12.	BPY 9	Epistemology  To be taken together	4 = 8
13.	BPY 10	Urdu Non-fiction Prose	4—
14.	BULE 5@	Psychopathology	8
15.	BPCE 14	OR	4
	OR	Industrial and Organizational Psychology	
	BPCE 15	OR	
	OR		= 8
	BPCE 17	Introduction to Counselling Psychology	
16.	BPCE 11	School Psychology	4
	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**

S.No.	Course Code	Title of the Elective Course	Credits
1.	BEGE 104	English for Business Communication (Formerly EEG 4)	8
2.	BEGE 107	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 7	4 ] = 8
13.	MTE 14	Mathematical Modelling To be taken together	4 ] - 0
14.	BPY 11	Philosophy of Human person	47=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
1.0	DD 07 44 //	or Practicals in Industrial & Organisational Psychology  To be taken together	= 8
18.	BPCE 23#	Internship in Psychology	4 _

<sup>#</sup> Compulsory Courses for B.A. 'Major' in Psychology. These courses can not be opted by B.A. General students.

Note: The courses BECE2, BECE214, BECE15, BECE16, BECE107, BPAE104, BPSE212, BEGE102, BEGE103, BEGE104, BEGE105, BEGE106, BEGE107, BEGE108, BEGE108, BEGE104, BEGE105, BEGE106, BEGE107, BEGE108, BEGE108, BEGE108, BEGE108, 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, EH17 & 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.

<sup>@</sup> Self-learning materials would be available in Urdu language only.

<sup>\*</sup> Self-learning materials would be available in English language only.

**Group – A1 (Application–oriented Courses)** 

S.No.	<b>Course Code</b>	Title of the course	Credits
D.1 101	Source Code	Application-oriented Courses in :	Citain
1.	BEGA1	Introduction to the Media (formerly AFW(E)	4
1.	BEGIN	OR	
	BHDA 101	Samachar Patra aur Feature Lekhan (Hindi) (Formerly AFW(H)	4
2.	BEGA 102	Writing for Radio (English) (Formerly AWR (E)	4
	22011102	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 To be taken
14.	CTE 4	Teaching Stategies  Teaching English – Elementary School  To be taken together	4 — 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.	APM 1	Integrated Pest Management (6 Cr. Theory+2Cr.Project)	8
18.	BCOA 1	Business Communication and Entrepreneurship (English medium only)	4

<sup>\*</sup> 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.

Note: MTE 01 is a pre-requisite for MTE 07 to MTE 10

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

FOR B. A. STUDENTS					
Course	II Year	III Year			
Foundation Course	Compulsory course : FST-1 (8 Credits)	NIL			
<b>Elective Course</b>	24 credits 8 credits from Group 3 and 8 credits from Group 4 8 credits from Group 1 or 2	16 or 24 credits 8 credits each from Group 5 & Group 6 8 credits either from Group 1 to 4 or Group A1			
Application- oriented Course	NIL	Compulsory: 8 to 16 credit Course(s) from Group-A1			

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

<sup>\*\* +2</sup> level of mathematics is a pre-requisite



Enrolment No.

Regional Centre Code

### INDIRA GANDHI NATIONAL OPEN UNIVERSITY

# Cou

January 2023 Session	fee to: The Regional Director of your
	Regional Centre
Study Centre Code	* as per schedule

Send this filled-in

l	1 1	<u>'</u>	
Name of the Student (in capital letters):			
Complete Address :			
	eduled Bank in the name of	f IGNOU payable	e at the city of the
Name of the Bank	Place		
Bank Draft No	Dated		
Amount ( <b>Rs. 4200/-</b> + the late fee as applicable)	Name of	f the City:	
ences), an 8 credit course, is compulsory. You should fill in	the boxes provided by indicat	ing your choice of t	
ereby register for the following courses for II year Bachelo	or of Science commencing Jan	nuary 2023.	
Discipline (Course Cou	es)	Course Code	Credits
Foundation Course in Humanities and Social Scie	nces	BSHF101	8
Chemistry: (from CHE 1 to 9, CHE 11L & MTE 3)			
Life Sciences: (from LSE 1 to LSE 8L & MTE 3)			>24 Credits
Physics: (from BPHE101, BPHE102, BPHL103, BPHE104, PHE5, 1	BPHE106, PHE7 to PHE10 & PHE15)		
Mathematics: (from MTE 1, 2, 4 to 10)			
· • • • • • • • • • • • • • • • • • • •	9	tion in January 20	
	tails of fee paid: Draft is to be made from any Schegional Centre.  Name of the Bank  Bank Draft No.  Amount (Rs. 4200/- + the late fee as applicable)  are advised not to repeat any elective course taken during ences), an 8 credit course, is compulsory. You should fill in dits. You should choose the maximum number of credits in creby register for the following courses for II year Bachelo Discipline (Course Cod  Foundation Course in Humanities and Social Scie Chemistry: (from CHE 1 to 9, CHE 11L & MTE 3)  Life Sciences: (from LSE 1 to LSE 8L & MTE 3)  Physics: (from BPHE101, BPHE102, BPHL103, BPHE104, PHE5, 1)  Mathematics: (from MTE 1, 2, 4 to 10)	tails of fee paid: Draft is to be made from any Scheduled Bank in the name of gional Centre.  Name of the Bank	Name of the Bank Place

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

	Yours faithfully
Date:	Signature of student
	E-Mail ID
	Mobile/ Ph. No

# $\underline{\textbf{Schedule for submission of Re-registration Form:}}\\$

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 from time to time.



## INDIRA GANDHI NATIONAL OPEN UNIVERSITY **Course Registration Form for B.Sc. III YEAR**

**January 2023 Session** 

Send this filled-in form along with fee to: The Regional Director of your

Enrolm	ent No.		Regional Centre
Region	al Centre Code Study Centre C	ode	* as per schedule
1. N	Jame of the Student (In capital letters):		<del></del>
2.	Complete Address :		
	of fee paid:		
Centre			•
	ame of the Bankank Draft No		
	mount ( <b>Rs.4200/-</b> + the late fee as applicable)		
exceedi Discipli	e advised to fill in the boxes provided by indicating your ng 32 credits. If you would like to Major in any Discipling ne but the total number of elective credits in that Discipling or 16 credits worth of Application-oriented Course(s) from	e, you must choose the maximum ine should not be more than 48 cr	number of credits in that

I hereby register for the following courses for III year B.Sc. commencing January 2023.

S. No.	Discipline (Course Codes)	Course Code	Credits
1.	Chemistry (from CHE 1 to CHE 12L, MTE 3)		
2.	Life Sciences: (from LSE 1 to LSE 8L, MTE 3) or [LSE 1 to LSE 11L for B.Sc. (Zoology) Major] or [LSE 1 to LSE 8L and LSE 12 to LSE14L for B.Sc. (Botany) Major]		
3.	Physics (from BPHE101, BPHE102, BPHL103, BPHE104, PHE5, BPHE106, PHE7 to PHE 16)		
4.	Mathematics (from MTE 1, 2, 4 to 14)		
5.	Group – A1 (Application-oriented Course(s))		

Total: 32 credits

Note: 1) Old students of pre-January 2018 batches are not eligible for Re-registration in January 2023 Session.

- For both B.Sc.(Major) and B.Sc.(General) degrees, at least 25% of the total elective credits in Physics, Chemistry and Life Sciences <u>must be from laboratory courses.</u>
- For all the *Elective and Application-oriented Courses of 3rd 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.
- Do not repeat the course(s) that you have already opted in the 1<sup>st</sup> and 2nd years.
- 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:**

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# 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 To be taken together	CHE 1	2 ¬ To be taken
	Chemistry Lab-I	CHE 3(L)	2together
	Inorganic Chemistry	CHE 2	4
	Physical Chemistry	CHE 4	4
	Organic Chemistry	CHE 5	4
	Organic Reaction Mechanism	CHE 6	4
	Chemistry Lab-II To he to lear to gother	CHE 7(L)	2 ¬ To be taken
	Chemistry Lab-III  To be taken together	CHE 8(L)	2 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
Life Sciences	Ecology	LSE 2	4
	Genetics	LSE 3	4
	Laboratory Course-I	LSE 4(L)	4 4
		LSE 5	4 4
	Physiology	LSE 5	· ·
	Developmental Biology		4
	Taxonomy and Evolution	LSE 7	4
	Laboratory Course-II	LSE 8(L)	4
	Animal Diversity-I	LSE 9	$\begin{bmatrix} 6 \\ 6 \end{bmatrix}$ To be taken
	Animal Diversity-II  To be taken together	LSE 10	0   40 004   000
	Animal Diversity Laboratory	LSE 11(L)	-
	Plant Diversity-I	LSE 12	$\begin{bmatrix} 6 \\ 6 \end{bmatrix}$ To be taken
	Plant Diversity-II   To be taken together	LSE 13	0 together
	Plant Diversity Laboratory	LSE 14(L)	4 together
	Mathematical Methods*	MTE 3*	4
	*MTE 02 (Mahamadal Mahada) and hardan and Life	Cairman alantina Ca	D.C. dans Hammer
	*MTE-03 (Mathematical Methods) can be taken as a Life		
	will not be considered as a Life Sciences elective credit		
	will not be considered as a Life Sciences elective credit is Botany.	if you wish to do I	
Physics	will not be considered as a Life Sciences elective credit in Botany.  Elementary Mechanics (Formerly PHE 1)  To be taken	if you wish to do I BPHE101	3.Sc. (Major) in Zoology of To be taken
Physics	will not be considered as a Life Sciences elective credit in Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2)  To be taken together	if you wish to do I BPHE101 BPHE 102	3.Sc. (Major) in Zoology of 2 To be taken together
Physics	will not be considered as a Life Sciences elective credit in Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L)  To be taken together	BPHE101 BPHE 102 BPHL 103	3.Sc. (Major) in Zoology of 2 To be taken together
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-I (Formerly PHE 4)	BPHE101 BPHE 102 BPHL 103 BPHE 104	3.Sc. (Major) in Zoology of To be taken together  4  To be taken
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-I (Formerly PHE 4) Mathematical Methods in Physics-II	BPHE101 BPHE 102 BPHL 103	3.Sc. (Major) in Zoology of 2 To be taken together
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-I (Formerly PHE 4)	BPHE101 BPHE 102 BPHL 103 BPHE 104	3.Sc. (Major) in Zoology of To be taken together  4  To be taken
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-I (Formerly PHE 4) Mathematical Methods in Physics-II	BPHE 101 BPHE 102 BPHL 103 BPHE 104 PHE 5	3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken together
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6)	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  To be taken
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  together  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L)	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  To be taken together
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  To be taken together  4  4  4  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11	3.Sc. (Major) in Zoology of Tobe taken together  To be taken together  To be taken together  To be taken together  4  4  4  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L)	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  4  4  4  4  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13	3.Sc. (Major) in Zoology of To be taken together  To be taken together  To be taken together  4  4  4  4  4  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III	BPHE101 BPHE 102 BPHL 103 BPHE 104 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 To be taken together  To be taken together  To be taken together  together  4  4  4  4  4  4  4
Physics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15	3.Sc. (Major) in Zoology of 2 To be taken together 4 To be taken 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 is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 15 PHE 16	3.Sc. (Major) in Zoology of taken together  To be taken together  To be taken together  To be taken together  4  4  4  4  4  4  4  4  4
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01	3.Sc. (Major) in Zoology of the Zoology of Z
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02	3.Sc. (Major) in Zoology of the Zoology of Z
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra To be taken together	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04	3.Sc. (Major) in Zoology of the second secon
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra Analytical Geometry  To be taken together	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05	3.Sc. (Major) in Zoology of the state of the
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra Analytical Geometry Abstract Algebra	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06	3.Sc. (Major) in Zoology of the state of the
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra Analytical Geometry  To be taken together	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05	3.Sc. (Major) in Zoology of the states and together  To be taken together
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra Analytical Geometry Abstract Algebra	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06	3.Sc. (Major) in Zoology of the state of the
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Analytical Geometry Abstract Algebra Advanced Calculus Differential Equations	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08	3.Sc. (Major) in Zoology of the taken together  To be taken together  To be taken together  together  To be taken together
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III Physics of Solids Mathematical Methods in Physics-III Astronomy and Astrophysics Communication Physics  Calculus Linear Algebra Elementary Algebra Analytical Geometry Abstract Algebra Advanced Calculus Differential Equations Real Analysis	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08 MTE 09	3.Sc. (Major) in Zoology of the state of the
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6)  Electric and Magnetic Phenomena Physics Laboratory-II  Optics  Electrical Circuits and Electronics  Modern Physics  Physics Laboratory-III  Physics of Solids  Mathematical Methods in Physics-III  Astronomy and Astrophysics  Calculus  Linear Algebra  Analytical Geometry  Abstract Algebra  Advanced Calculus  Differential Equations  Real Analysis  Numerical Analysis	BPHE101 BPHE 102 BPHE 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08 MTE 09 MTE 10	2 To be taken together 4 To be taken together 4 To be taken 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 is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-II (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 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	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08 MTE 09 MTE 10 MTE 10 MTE 10 MTE 10 MTE 10	3.Sc. (Major) in Zoology of To be taken together
	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) 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 6) Electric and Magnetic Phenomena Physics Laboratory-II Optics Electrical Circuits and Electronics Modern Physics Physics Laboratory-III 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 Linear Programming	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08 MTE 09 MTE 10 MTE 10 MTE 10 MTE 11 MTE 12	3.Sc. (Major) in Zoology of To be taken together
Physics  Mathematics	will not be considered as a Life Sciences elective credit is Botany.  Elementary Mechanics (Formerly PHE 1) Oscillations and Waves (Formerly PHE 2) Physics Laboratory-I (Formerly PHE 3L) Mathematical Methods in Physics-II (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 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	BPHE101 BPHE 102 BPHL 103 BPHE 104 PHE 5 BPHE 106 PHE 7 PHE 8(L) PHE 9 PHE 10 PHE 11 PHE 12(L) PHE 13 PHE 14 PHE 15 PHE 16 MTE 01 MTE 01 MTE 02 MTE 04 MTE 05 MTE 06 MTE 07 MTE 08 MTE 09 MTE 10 MTE 10 MTE 10 MTE 10 MTE 10	3.Sc. (Major) in Zoology of To be taken together

Table II: Group – A1 (Application-oriented Courses): For III Year

S.No.	<b>Course Code</b>	Title of the course	Credits
1.	BEGA 1	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 To be taken
14.	CTE 4	Teaching Strategies  Teaching English – Elementary School  To be taken together	4 — 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.	ΑΕС 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

<sup>\*</sup> 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.

#### 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.

<sup>\*\* 10+2</sup> level of mathematics is a pre-requisite.

 $<sup>\</sup>Omega$  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.

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

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 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 package* of LSE 12, 13 & 14(L)	
Chemistry	40 (Minimum)	CHE 1 to CHE 12(L)	
Mathematics	40 (Minimum)	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)	

<sup>\*</sup> 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 ONE DISCIPLINE.

#### R 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

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.



### INDIRA GANDHI NATIONAL OPEN UNIVERSITY Course Registration Form for BSW II Year January 2023 Session

Send this filled-in form along with fee to: The Regional Director of your Regional Centre

Enroln	nent No.			Regional Centre
Region	nal Centre Code Study Ce	entre Code		* as per schedule
1.	Name of the Student (in capital letters):			
2.	Complete Address:			
	s of fee paid: Draft is to be made from any Scheduled nal Centre.	Bank in the name	of IGNOU pay	able at the city of the
a. N	Name of the Bank	Place		
b. I	Bank Draft No	Dated		
c. A	Amount ( <b>Rs.5400/-</b> + the late fee as applicable)			
S. No.	Course Title	Course Code	Total Credits	s
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	
		To	tal: 32 Credi	its
Note:	<ol> <li>Old students of pre-January 2019 batches are not el</li> <li>For all the Elective Courses of 2<sup>nd</sup> year, a student is end examinations after one year of the commencem</li> <li>This Re-registration Form is for old BSW program apply for the same.</li> <li>Please keep a photo copy of this form for your record</li> </ol>	s eligible for appearant of the session.  Inne. Students of I	aring in his/her	first attempt in Term-
				Yours faithfully,

### **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 from time to time.

Signature of student \_\_\_

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



### INDIRA GANDHI NATIONAL OPEN UNIVERSITY Course Registration Form for BSW III Year January 2023 Session

Send this filled-in form along with fee to: The Regional Director of your Regional Centre

	Regional Centre
	* as per schedule
me of IGNO	OU payable at the city
commencing	g January 2023.
e Code T	otal Credits
3	8
5	8
6	8
3	8
Total:	32 Credits
earing is his/h ı.	nuary 2023 Session. her <u>first attempt</u> in Terr ramme are advised not
	Yours faithfull
are of student	
ID	
	nre of student ID / 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 from time to time.