

INDIRA GANDHI NATIONAL OPEN UNIVERSITY

Re-Registration Form B. Sc. 2nd / 3rd Year

January/July 20__ Session

Registration Details

1. Enrollment no. 2. Programme_Code 3. OSC/SC Code

4. Name of the Student (in capital letters): _____

Details of Fee Remittance

5.1 Bank Draft/TT No. _____ Dated _____ Amount (INR/USD) _____

5.2 Name of the Bank _____ Place _____

For B.Sc. 2nd Year, the students are advised not to repeat any elective course taken during the First Year. BSHF-101 (Foundation Course in Humanities & Social Sciences), an 8credit course, is compulsory. The students should choose the elective worth 24 credits and fill in the boxes provided. You should choose the maximum number of credits in the discipline in which you would like to do B.Sc. (Major).

For B.Sc. 3rd Year, the Students are advised to fill his / her electives in the boxes provided by indicating the Electives and Application-oriented Courses not exceeding 32 credits. If you would like to do B.Sc. (Major) in any Discipline, you must choose the maximum number of credits in that Discipline but the total number of elective credits in that Discipline should not be more than 48 credits. You have to take 8 credits or 16 credits worth of Application-oriented Course(s). Do not repeat any elective course taken during the first and second years.

I hereby register for the following courses for **II/III year of B.Sc.** programme commencing **January/July 20__**.

S.No.	Programme (Tick)	Discipline (Course Codes)	Course Code	Credit	Total Credits	
1	B.Sc. 2 nd Year <input type="checkbox"/>	1) Foundation Course in Humanities and Social Sciences	BSHF101	8	} 24	32
		2) Chemistry (from CHE 1 to 9, CHE 11L & MTE 3)	<input type="text"/>	<input type="text"/>		
		3) Life Sciences (from LSE 1 to LSE 8L & MTE 3)	<input type="text"/>	<input type="text"/>		
		4) Physics (from BPHE 101, BPHE 102, BPHL 103, BPHE104, PHE5, BPHE106, PHE7 to PHE 10 & PHE 15)	<input type="text"/>	<input type="text"/>		
		5) Mathematics (from MTE 1, 2, 4 to MTE 10)	<input type="text"/>	<input type="text"/>		
2.	B.Sc. 3 rd Year <input type="checkbox"/>	1) Chemistry (from CHE 1 to CHE 12L, MTE 3)	<input type="text"/>	<input type="text"/>	} 16 or 24 Credits	8 or 16 Credits
		2) Life Sciences (from LSE 1 to LSE 8L, MTE 3) or [LSE1 to LSE 11L for B.Sc. (Zoology) Major] or [LSE 1 to LSE 8L and LSE 12 to LSE14L for B.Sc. (Botany) Major]	<input type="text"/>	<input type="text"/>		
		3) Physics (from BPHE 101, BPHE 102, BPHL103, BPHE104, PHE5, BPHE106, PHE 7 to PHE 16)	<input type="text"/>	<input type="text"/>		
		4) Mathematics (from MTE 1, 2, 4 to MTE 14)	<input type="text"/>	<input type="text"/>		
		5) Group – A1 (Application-oriented Course(s))	<input type="text"/>	<input type="text"/>		
					32	

- Note :** i) **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 must be from laboratory courses.****
- (ii) Do not repeat the course(s) that you have already opted for in 1st & 2nd year.
- (iii) **For all the *Elective Courses of 2nd & 3rd year***, the student will be eligible to fill the Examination form towards the end of one year of study i.e. students re-registering for July' 2020 would be eligible for appearing in June' 2021 Term End Examination or thereafter.

Yours faithfully,

Date: _____

Signature of student _____

Guidelines for Course Registration of 2nd / 3rd Year, B.Sc

Table – I

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

<i>Discipline</i>	<i>Title of the Elective Course</i>	<i>Code</i>	<i>Credits</i>
Chemistry	Atoms and Molecules } To be taken	CHE 1	2
	Chemistry Lab-I	CHE 3(L)	2
	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 be taken	CHE 7(L)	2
	Chemistry Lab-III	CHE 8(L)	2
	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
			To be taken together
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 7	4
	Laboratory Course-II	LSE 8(L)	4
	Animal Diversity-I	LSE 9	6
	Animal Diversity-II	LSE 10	6
	Animal Diversity Laboratory	LSE 11(L)	4
	Plant Diversity-I	LSE 12	6
	Plant Diversity-II	LSE 13	6
	Plant Diversity Laboratory	LSE 14(L)	4
	Mathematical Methods*	MTE 3*	4
			To be taken together
			To be taken together
*MTE-03 (Mathematical Methods) can be taken as a Life Sciences elective for B.Sc. degree. However, it will not be considered as a Life Sciences elective credit if you wish to do B.Sc. (Major) in Zoology or Botany.			
Physics	Elementary Mechanics (Formerly PHE 1) } To be taken together	BPHE101	2
	Oscillations and Waves (Formerly PHE 2)	BPHE 102	2
	Physics Laboratory-I (Formerly PHE 3L)	BPHE 103	4
	Mathematical Methods in Physics-I (Formerly PHE 4)	BPHE 104	2
	Mathematical Methods in Physics-II	PHE 5	2
	Thermodynamics and Statistical Mechanics (Formerly PHE 6)	BPHE 106	4
	Electric and Magnetic Phenomena	PHE 7	4
	Physics Laboratory-II	PHE 8(L)	4
	Optics	PHE 9	4
	Electrical Circuits and Electronics	PHE 10	4
	Modern Physics	PHE 11	4
	Physics Laboratory-III	PHE 12(L)	4
	Physics of Solids	PHE 13	4
	Mathematical Methods in Physics-III	PHE 14	4
	Astronomy and Astrophysics	PHE 15	4
	Communication Physics	PHE 16	4
			To be taken together
			To be taken together
Mathematics	Calculus	MTE 01	4
	Linear Algebra	MTE 02	4
	Elementary Algebra } To be taken	MTE 04	2
	Analytical Geometry	MTE 05	2
	Abstract Algebra	MTE 06	4
	Advanced Calculus	MTE 07	4
	Differential Equations	MTE 08	4
	Real Analysis	MTE 09	4
	Numerical Analysis	MTE 10	4
	Probability and Statistics	MTE 11	4
	Linear Programming	MTE 12	4
	Discrete Mathematics	MTE 13	4
	Mathematical Modelling	MTE 14	4

Table II : Group – A1 (Application-oriented Courses) : For 3rd Year

S.No.	Course Code	Title of the course	Credits
1.	BEGA 1	Introduction to the Media (formerly AFW(E) or	4
	BHDA 101	Samachar Patra aur Feature Lekhan (Hindi) (Formerly AFW(H)	4
2.	BEGA 102	Writing for Radio (English) (Formerly AWR (E) or	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 (6 Cr. Theory + 2 Cr. Project)	8
12.	ACS 1	Consumer Studies	8
13.	CTE 3	Teaching Strategies	4
14.	CTE 4	Teaching English – Elementary School	4
	OR	OR	
	CTE 5	Teaching English – Secondary School (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

} To be taken together

* 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:

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 CANNOT 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, at least 25% of the total elective credits in Physics, Chemistry and Life Sciences must be from laboratory courses.

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 3rd 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 elective courses from that discipline, must be as given in the following table:

Discipline	Total Credits	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)

* 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.**

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

PLEASE NOTE

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