



INDIRA GANDHI NATIONAL OPEN UNIVERSITY

RANCHI REGIONAL CENTRE

457/A, Ashok Nagar, RANCHI-834022, JHARKHAND

Phone : (0651) 2244688, 2244677 Fax : (0651) 2244400

**Sub : Course Registration – Choice of Courses – B. Sc. II, III Year
July 2009/ January 2010 session.**

Date : Feb, 2009

Dear Student,

As per the provisions laid down in your Programme Guide, you are required to submit your option for **Elective and Application-oriented Courses** for next academic year, irrespective of the fact whether you have appeared in the examination or not or whether you have passed or not in the courses for which you are registered in the current academic session. **The Course Registration Form along with the guidelines about the courses are enclosed.**

Fee

You are requested to fill up the form and send it to the **Regional Centre** along with the Programme fee of **Rs.2800/-** (Rupees two thousand eight hundred only) in the form of a Demand Draft drawn in favour of IGNOU payable at Ranchi as per following schedule:

S.No.	July Session	January Session	Late Fee
1.	1 st February to 31 st March	1 st August to 1 st October	Nil
2.	1 st April to 30 th April	3 rd October to 31 st October	Rs.200/-
3	1 st May to 31 st May	1 st November to 30 th November	Rs.500/-
4	1 st June to 20 th June	1 st December to 20 th December	Rs.1000/-

Options available in the Elective Courses and Application-oriented Courses (AoCs) are grouped as per the scheme enclosed. You are required to fill in the Course Registration Form as per the instructions printed on the Form. **If you want to do 'major' in a particular subject, you should opt for the required number of credits from elective courses in that specific subject as given in the guidelines for course registration for B.Sc. II, III year.** This may enable you to pursue your studies in that subject at the Master's level.

With best wishes,

NOTE : LEARNERS SHALL COLLECT
THEIR STUDY MATERIAL FROM THEIR
STUDY CENTRES

Yours sincerely,

(Regional Director)

Note : There will be no registration for B.Sc - III year in January 2010 cycle.

PS : You are required to fill-up compulsorily the statistical information in the enclosed Annexure-I of the RR Form.



INDIRA GANDHI NATIONAL OPEN UNIVERSITY
COURSE REGISTRATION FORM FOR B.Sc. II YEAR

July 2009/Januray 2010 SESSION

Send this filled-in form along with fee to:

Regional Director
IGNOU Regional Centre
457-A, Ashok Nagar
Ranchi-834022

* as per schedule

Enrolment No.

Regional Centre Code

Study Centre Code

- Name of the Student (in capital letters): _____
- Complete Address: _____

Details of fee paid: Draft is to be made in the name of IGNOU payable at Ranchi.

- Name of the Bank _____ Place _____
- Bank Draft No. _____ Dated _____
- Amount (Rs. 2800/- + the late fee as applicable) _____

I hereby register for the following courses for II year Bachelor in Science commencing **July 2009** [] / **January 2010** []. (Please [√] the relevant session)

[Students are advised not to repeat any elective course taken during First Year. BSHF-101 (Foundation Course in Humanities & Social Sciences), an 8 credit course, is compulsory. Students should fill in the boxes provided by indicating their choice of the electives worth 24 credits. They should choose the maximum number of credits in the discipline in which they would like to major.]

S. No	Course	Course Code	Credits
1.	Foundation Course in Humanities and Social Sciences	BSHF-101	8
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 PHE-1, 2, BPHL-103, PHE-4 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"/>
Total : 32 credits			} 24 Credits

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

S.No.	July Session	January Session	Late Fee
1.	1 st February to 31 st March	1 st August to 1 st October	NIL
2.	1 st April to 30 th April	3 rd October to 31 st October	Rs.200/-
3.	1 st May to 31 st May	1 st November to 30 th November	Rs.500/-
4.	1 st June to 20 th June	1 st December to 20 th December	Rs.1000/-

PS: Students are required to fill-up compulsorily the statistical information in the enclosed Annex-I of the RR Form.



INDIRA GANDHI NATIONAL OPEN UNIVERSITY
COURSE REGISTRATION FORM FOR B.Sc. III YEAR

July 2009 Session

Send this filled-in form along with fee to:

Regional Director
IGNOU Regional Centre
457-A, Ashok Nagar
Ranchi-834022

* as per schedule

Enrolment No.

Regional Centre Code

Study Centre Code

1. Name of the Student (in capital letters): _____
2. Complete Address: _____

Details of fee paid: Draft is to be made in the name of IGNOU payable at Ranchi.

- a. Name of the Bank _____ Place _____
- b. Bank Draft No. _____ Dated _____
- c. Amount (**Rs. 2800/-** + the late fee as applicable) _____

I hereby register for the following courses for III year B.Sc. commencing **July 2009**.

[You are advised to fill in the boxes provided by indicating your choice of Electives and Application-oriented Courses not exceeding 32 credits. You should choose the maximum number of credits in the discipline in which you would like to do major. You have to take a minimum of 8 credits worth of Application-oriented Course(s) from Group-A1.] If you want to 'major' in Zoology/Botany, you are advised to take AHE-1 as an Application-oriented courses.

S. No	Course	Course Code	Credits
1.	Chemistry (from CHE-1 to CHE-12L, MTE-3)	<input type="text"/>	<input type="text"/>
2.	Life Sciences (from LSE-1 to LSE-14, MTE-3)	<input type="text"/>	<input type="text"/>
3.	Physics (from PHE-1, 2, BPHL-103, PHE-4 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"/>
Total : 32 credits			

} 16 or 24
Credit

} 8 or 26
Credit

- Note :
- 1) **For both B.Sc. (Major) and B.Sc. (General) degrees, at least 25% of the total elective credits in Physics, Chemistry and Life Sciences must be from laboratory courses.**
 - 2) **For all the Elective and Application-oriented Courses of 3rd year, a student is eligible for appearing in his/her first attempt in Term-end examinations after one year of registration.**
 - 3) Don't repeat the course that you have already opted for in I/II year. 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 at the Regional Centre only:**

S.No.	July Session	Late Fee
1.	1 st February to 31 st March	Nil
2.	1 st April to 30 th April	Rs.200/-
3.	1 st May to 31 st May	Rs.500/-
4.	1 st June to 20 th June	Rs.1000/-

PS: Students are required to fill-up compulsorily the statistical information in the enclosed Annexure-I of the RR Form.

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

Table – I

The elective courses available for the 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 together	CHE-1	2]
	Chemistry Lab-I } to be taken together	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 together	CHE-7(L)	2]
	Chemistry Lab-III } to be taken together	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
	Life Sciences	Cell Biology	LSE-1
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 } to be taken together		LSE-9	6]
Animal Diversity-II } to be taken together		LSE-10	6]
Animal Diversity Laboratory } to be taken together		LSE-11(L)	4]
Plant Diversity-I } to be taken together		LSE-12	6]
Plant Diversity-II } to be taken together		LSE-13	6]
Plant Diversity Laboratory } to be taken together		LSE-14(L)	4]
Mathematical Methods		MTE-3*	4
Physics		Elementary Mechanics } to be taken together	PHE-1
	Oscillations and Waves } to be taken together	PHE-2	2]
	Physics Laboratory-I (formerly PHE-3L)	BPHL-103	4
	Mathematical Methods in Physics-I } to be taken together	PHE-4	2]
	Mathematical Methods in Physics-II } to be taken together	PHE-5	2]
	Thermodynamics and Statistical Mechanics	PHE-6	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

* MTE-3 can be taken as a Life Science elective for B. Sc. (General) degree. However, it will not be considered as Life Science elective Credit if you wish to Major in Zoology or Botany.

Mathematics	Calculus	MTE-1	4
	Elementary Algebra	MTE-4	2
	Analytical Geometry	MTE-5	2
	Linear Algebra	MTE-2	4
	Abstract Algebra	MTE-6	4
	Advanced Calculus	MTE-7	4
	Differential Equations	MTE-8	4
	Real Analysis	MTE-9	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

□ To be taken together

Table – II
Group – A1 (Application-oriented Courses)

S. No.	Course Code	Titled of the course	Credits
1.	AFW-E	Application-oriented Courses in : Feature Writing (English) OR	4
2.	BHDA-101	Samachar Patra aur Feature Lekhan (Hindi) (Formerly AFW-H)	4
	AWR-E	Writing for Radio (English) OR	4
3.	BRPA-101	Radio Lekhan (Hindi) (Formerly AWR-H)	4
4.	ATR-1	Translation (Hindi 4 credits + English 4 credits)	8
5.	ACC-1	Organising Childcare Services	8
6.	ANC-1	Nutrition for the Community	8
7.	AHE-1	Human Environment (6 cr. Theory + 2 cr. Project)	8
8.	AMK-1*	Marketing	4
9.	AED-1*	Export Procedures and Documentation	4
10.	AOM-1*	Office Organisation & Management	4
11.	ASP-1*	Secretarial Practice	4
12.	AMT-1	Teaching of Primary School Mathematics (6 Cr. Theory + 2 Cr. Project)	8
13.	ACS-1	Consumer Studies	8
14.	CTE-3	Teaching Strategies	4
	CTE-4	Teaching English – Elementary School } to be taken together	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-1 Ω	Environmental Chemistry (6 Cr. Theory+2Cr. Lab work)	8
18.	APM-1 ΩΩ	Integrated Pest Management (6 Cr. Theory+2Cr.Project)	8
19.	BCOA-001	Business Communication and Entrepreneurship (English Medium only)	4

□ 13 & 14 should 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 8 credits in total.

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

Ω CHE-1, CHE-2 and CHE-3(L) are the pre-requisite for this course

ΩΩ +2 level of Biology is a pre-requisite.

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. But, it is not a compulsory directive.

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 CHE-10
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 co-requisite for CHE-6 and pre-requisite for CHE-9 & 10
PHE-2 is a pre-requisite for PHE-9
PHE-7 is a pre-requisite for PHE-10
PHE-1, PHE-4 and PHE-5 are pre-requisite for PHE-11
PHE-10 is a co-requisite for PHE-16
PHE-4 and PHE-5 are pre-requisites for PHE-14

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.

The 2 credit courses should be taken in the following combinations:

CHE-1	and	CHE-3(L)
CHE-7(L)	and	CHE-8(L)
PHE-1	and	PHE-2
PHE-4	and	PHE-5
MTE-4	and	MTE-5

But you cannot take combinations such as given below :

PHE-1	and	CHE-1
PHE-2	and	CHE-1
PHE-1	and	CHE-3L
PHE-4	and	MTE-4

Please note that out of the total elective credits that you register for in courses in Physics, Chemistry and Life Sciences, at least 25% must be from laboratory courses.

As advised in the Programme Guide, we would like to remind you that it is necessary to opt for minimum 8 and maximum 48 credits in any one discipline which you decide to study during the entire period of 3 years.

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 AoC(s) of their choice. Among 4 credit AoCs, they should choose at least two 4 credit courses to make up 8 credits in total.

Table – III**B.Sc (Major)**

To obtain B.Sc (Major), the minimum number of credits to be taken in the **elective courses** in the respective disciplines are as follows :

Discipline	Total Credits	Elective courses
Botany	48	LSE-01 to 08(L) and the package* of LSE-12, 13,14 (L)
Chemistry	40	CHE-01 to CHE-12 (L)
Mathematics	40	MTE-01,02,04 to 09 worth 28 credits are compulsory. Remaining 12 credits may be opted from MTE-10 to MTE-14
Physics	48	PHE-01, 02, BPHL-103, PHE-04 to PHE-16
Zoology	48	LSE-01 to 08 (L) and the package* of LSE-09,10,11(L)

* Please note the package of 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)** should also be taken as a package.

B.Sc. (General)

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

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

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

Table - IV

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

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 Science disciplines.
3. **At least 25% of the total credits that you register for in the elective courses from Life Sciences, Chemistry and Physics disciplines must be from the laboratory courses.** For example, if you opt for a total 64 credits of electives in these 3 disciplines, at least 16 credits should be from lab courses.
4. You cannot appear in the Term-End Examination of any course without getting registered for the same. Otherwise result will not be declared and onus will be on you.

INFORMATION FOR STATISTICAL PURPOSE. STUDENTS ARE
REQUIRED TO FILL-UP THIS ANNEXURE COMPULSORILY.

1. Name of student: _____

2. Enrol.No. :

3. Programme Code:

4. Category: (Cross (X) the appropriate Box only)

General SC ST OBC

5. Whether Kashmiri Migrant: (Cross (X) if applicable)

6. Whether Physically handicapped: (Cross (X) if applicable)

7. Whether minority: (Cross (X) if applicable)

8. Social Status: (Cross (X) the appropriate Box only)

Ex-service man War-widow Not applicable

9. Employment Status: Cross (X) the appropriate Box only)

Unemployed Employed IGNOU Employee KVS Employee

10. Religion: Cross (X) the appropriate Box only

Hindu Muslim Christian Sikh Jain Buddhist Parsi Jews Others

(please specify
_____)

11. Details of Scholarship being received, if any.

(a) Amount (annually) (b) Govt./Deptt. (c) Family income (yearly)

Rs.

Rs.

OIGS

Book Post



If undelivered please return to

Regional Director
IGNOU Regional Centre
457-A, Ashok Nagar
Ranchi-834022