

**REGULATIONS LEADING TO THE DEGREE OF  
B.SC.-B.ED. UNDER INTEGRATED TEACHER  
EDUCATION PROGRAM (ITEP)**

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भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर  
INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR



## Regulations for B.Sc.-B.Ed. Under ITEP

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# **REGULATIONS FOR UNDERGRADUATE PROGRAMME LEADING TO THE DEGREE OF B.Sc.-B.Ed. (OFFERED UNDER ITEP)**

## **1. Introduction:**

- 1.1 The provisions contained in these Regulation will govern the conditions for imparting courses of instructions, conducting examinations and evaluation of students' performance leading to the degree of **4-Year B.Sc.-B.Ed.** (offered under ITEP) in disciplines mentioned in **Clause 1.3** below.
- 1.2 This regulation is effective from the Academic Session starting from July 2023.
- 1.3 **Disciplines:** The disciplines in which the courses of studies available are as named below:  
**4-Year B.Sc.-B.Ed. Degrees for secondary stage with major in**
  - (i) Chemistry
  - (ii) Economics
  - (iii) Mathematics
  - (iv) Physics
- 1.4 The provisions of this Regulation shall also be applicable to any new discipline(s) that are introduced from time-to-time and added to the list in **Clause 1.3**.
- 1.5 The Board of Governors may, on the recommendation of the Senate, change any or all parts of this Regulation at any time considered appropriate by the Senate.

## **2. Academic Calendar:**

- 2.1 The academic session is divided into two semesters each of approximately 20 weeks' duration, namely, an Autumn Semester (July-December) and a Spring Semester (January-May).
- 2.2 The Senate-approved schedule of academic activities for a session, inclusive of dates for registration, mid-semester and end-semester examinations etc., shall be laid down in the Academic Calendar for the session. The Academic Calendar shall strive to provide for a total of about **70 working days** in each semester excluding examinations.

## **3. Admission:**

- 3.1 Admission to all B.Sc.-B.Ed. courses will be made in the Autumn Semester of each session, at the first year level, through **the National Common Entrance Test (NCET)** conducted by the **National Testing Agency (NTA)** every year.
- 3.2 Foreign nationals may be admitted as per Government of India norms.
- 3.3 Provisions of this Regulation do not prevent the Institute from allowing students enrolled in a university in India or abroad to attend specified subjects in one or more semesters without leading to any degree on certain terms and conditions.
- 3.4 All students admitted to any of the courses shall be required to pay at the time of joining and also in subsequent semesters prevalent tuition and other fees as prescribed by the Institute till they are on roll.
- 3.5 The Institute reserves the right to cancel the admission of any student, and ask him/her to leave the programme at any stage on grounds of unsatisfactory academic performance, irregular attendance in classes and/or any act of indiscipline or misconduct.
- 3.6 After completion of registration process, students are not allowed to change their major.
- 3.7 The detailed admission criteria for B.Sc.-B.Ed. courses (under ITEP) in IIT Bhubaneswar will be decided by the **ITEP admission committee** every year and will have to have the approval of the competent authority. It will be notified in the institute website.

#### **4. Residence:**

- 4.1 The Institute is **essentially a residential one** and unless otherwise exempted/permitted, every student shall be required to reside in a Hall of Residence, and be a boarder of a Hall of Residence, to which he/she is assigned. A student must fulfil the terms and conditions of Hall of Residence during his/her stay. The terms and conditions are mentioned in **Appendix - I**.

#### **5. Attendance:**

- 5.1 Attendance in all classes (lectures, tutorials, laboratories, etc.) is compulsory. A student may be debarred from appearing at an examination on ground of unsatisfactory attendance.
- 5.2 Absence from classes without prior permission will be considered as an act of indiscipline. Such cases will be dealt with in accordance with **Clause 3.5**.
- 5.3 Detailed rules regarding attendance in classes etc are given in **Appendix - II**.

#### **6. Conduct and Discipline:**

- 6.1 Students shall conduct themselves within and outside the precincts of the Institute in a manner befitting the students of an institution of national importance.
- 6.2 Detailed rules regarding conduct and discipline are given in **Appendix - III**.

#### **7. Course Structure:**

- 7.1 The duration of the **B.Sc.-B.Ed.** courses is **8 (eight)** semesters. A student would be conferred the **B.Sc.-B.Ed.** degree on successful completion of all **8 (eight)** semesters of study. If a student leaves the programme after successful completion of **first 6 (six)** semesters of study, he/she would be awarded only the **B.Sc.** degree. The institute may put a cap on the number of students leaving the programme.
- 7.2 The curricula and syllabi for the different degree programmes as proposed by the respective Schools and recommended by the Undergraduate Programme Evaluation Committee (**UGPEC**) shall have to have the approval of the Senate.
- 7.3 All subjects would have a lecture-tutorial-experiment/design component (**L-T-P**) to indicate the contact hours. 'T' and 'P' components of a subject may be void. The laboratory subjects will have the (**0-0-P**) structure. All the subjects would have a credit count 'C'. Teaching of subjects would be reckoned in terms of credits.
- A subject may have some prerequisite subjects. A student who has passed the prerequisite subjects would be allowed to register for the subject. The teacher concerned would have the prerogative to waive the prerequisite for a student if he/she satisfied through a test that the student otherwise has gained sufficient proficiency to take up the subject.
- 7.4 The course requirements will be different for the respective degree courses. The requirements are detailed out in the curriculum and syllabus for each of the disciplines as approved by the Senate. The curriculum structure of each degree programme is included in this regulation as **Appendix - VII**.
- 7.5 'School experience' of B.Ed programme is to be referring to **Clause 11.2(a)** of this regulation.

## 8. Minor in a Discipline:

- 8.1 Minor is optional for the students from all disciplines. School would offer minor courses in each discipline. Students are allowed to choose a minor from any of the disciplines listed in **Clause 1.3** except their major subject.
- 8.2 Interested students must register for a minor starting from the first semester and they need to fulfil all the prescribed credits for a minor degree.
- 8.3 A student is allowed to choose Chemistry as a minor only if he/she studied Chemistry and Mathematics in Class XII.
- 8.4 A student is allowed to choose Mathematics/Economics as a minor only if he/she studied Mathematics in Class XII.
- 8.5 A student is allowed to choose Physics as a minor only if he/she studied Physics and Mathematics in Class XII.
- 8.6 The course requirements for the award of a minor degree are as per the minor curriculum and the syllabus for each discipline as approved by the Senate.
- 8.7 The student can withdraw the minor at any time with the approval of the Concerned Authority.

## 9. Registration:

- 9.1 Every student of the B.Sc.-B.Ed. course is required to be present and register at the commencement of each semester on the day fixed for and notified in the Academic Calendar.
- 9.2 Registration of the students for First (Autumn) Semester will be centrally organized by the Academic Section of the Institute. For all other semesters, the registration will be organized school wise under the supervision of the respective Faculty Advisor and Head of the School.
- 9.3 A student who does not register on the day announced for the purpose may be permitted, in consideration of any compelling reason **like serious illness of himself/ herself or a calamity in the family**, late registration within the **next seven working days** on payment of a prevalent additional late fee as prescribed by the Institute. Late registration **beyond seventh working day** may be permitted by the **Dean (UGP)** if the justification provided by the student is found satisfactory.
- 9.4 From second semester onwards, only those students who meet the following conditions will be permitted to register:
  - (a) not been debarred from registering for a specified period on disciplinary or any other ground.
  - (b) cleared all Institute and Hostel dues of the previous semesters.
  - (c) paid all required prescribed fees for the current semester.
- 9.5 To be able to register in the second year in the Institute at the end of the first year, a student must complete satisfactorily 2/3 of the total credits. Students who have failed to clear the above condition, even after going through Supplementary Examinations, would have to repeat the first year or have to discontinue the programme.

**Note:** The GPA for a set of 'P' subjects will be calculated as follows:

$$GPA = \frac{\sum_{i=1}^p c(i)g(i)}{\sum_{i=1}^p c(i)}$$

where 'c(i)' is Credit Weightage allotted to a particular subject 'i' in the set, and 'g(i)' is the Grade-point carried by the letter grade awarded to the student in that subject 'i'.

- 9.6 From the third semester onwards in any Autumn (Spring) Semester:
- Students who have passed in all the subjects of previous Autumn (spring) Semesters shall register for subjects as specified in the curricula of the concerned discipline.
  - Students who have failed in one or more subjects (henceforth called backlog subjects) in the previous Autumn (Spring) Semesters must first register in as many of these backlog subjects as offered in that Semester provided the time-table permits before registering in any new subject.
  - Students who have obtained CGPA lower than 6.00 may be allowed, on the recommendation of the Head of the School and the approval of **the Dean (UGP)**, to re-register in one or more subjects in which he/she received 'P' grade(s), so as to improve his/her CGPA to 6.00 or above, provided that the subject(s) is/are otherwise being offered in that semester and there is no clash in the time table. The grade will be revised and recorded only if there is an improvement.
- 9.7 A student who has been debarred from appearing at an examination either
- as per recommendation of the subject teacher for unsatisfactory attendance or
  - by the Institute as a measure of disciplinary action or
  - for adopting malpractice at an examination, and consequently awarded a grade 'X', may re-register for the subject(s) after the term of the debarment expires, provided that other provisions of this regulations do not prevent him/her.
- 9.8 With the concurrence of the Faculty Adviser a student may be allowed to change his/her registration of subjects **within one week from the day of registration** if proper justification is given.

## 10. Grading System:

- 10.1 As a measure of students' performance a 7-scale grading system using the following letter grades and corresponding grade points per credit, shall be followed:

Performance	Letter grade	Grade point per credit
Excellent	Ex	10
Very Good	A	9
Good	B	8
Fair	C	7
Average	D	6
Pass	P	5
Fail	F	0

In addition, there shall be two transitional grading symbols, which can be used by the examiners to indicate the special position of a student in a subject:

**I** - for 'Incomplete assessment'

**X** - for 'Debarred'

- 10.2 A **Semester Grade Point Average (SGPA)** will be computed for each semester. The SGPA will be calculated as follows:

$$SGPA = \frac{\sum_{i=1}^n c(i)g(i)}{\sum_{i=1}^n c(i)}$$

where 'n' is the number of subjects registered for the semester, 'c(i)' is the number of Credits allotted to a particular subject, and 'g(i)' is the grade-points carried by the letter corresponding

to the grade awarded to the student for the subject. SGPA will be rounded off to the second place of decimal and recorded as such. The SGPA would indicate the performance of the student in the semester to which it refers.

- 10.3 Starting from the second semester at the end of each semester, **Cumulative Grade Point Average** (CGPA) will be computed for every student as follows:

$$CGPA = \frac{\sum_{i=1}^m c(i)g(i)}{\sum_{i=1}^m c(i)}$$

where ‘*m*’ is the total number of subjects the student has registered from the first semester onwards up to and including the semester *S*, ‘*c(i)*’ is the number of Credits allotted to a particular subject, ‘*s(i)*’ and ‘*g(i)*’ is the grade-point carried by the letter corresponding to the grade awarded to the student for the subject ‘*s(i)*’. CGPA will be rounded off to the second place of decimal and recorded as such.

The CGPA would indicate the cumulative performance of the student from the first semester up to the end of the semester to which it refers. The CGPA, SGPA and the grades obtained in all the subjects in a semester will be communicated to each student at the end of every semester.

- 10.4 When a student gets the grade ‘**I**’ for any subject(s) during a semester, the SGPA of that semester and the CGPA at the end of that semester will be tentatively calculated ignoring this (these) subjects. After the ‘**I**’ grade(s) has (have) been converted to appropriate grades, the SGPA and CGPA for that semester will finally be recalculated after taking into account this (these) grade(s).
- 10.5 When a student gets the grade ‘**F**’ in any subject during a semester, the **SGPA** and the **CGPA** will be calculated taking into the credits of all registered subjects (including the credits of failed subjects (**Senate Res. No. 26.A.C.4**)). After the ‘**F**’ grade(s) has/have been substituted by better grades during a subsequent semester, the **SGPA** and the **CGPA** of all the semesters, starting from the earliest semester in which the ‘**F**’ grade has been obtained, will be recomputed and recorded to take this change of grade into account.

## 11. Assessment of Performance:

There will be continuous assessment of a student’s performance throughout the semester and the grades will be awarded by the subject teacher.

- 11.1 (a) For arriving at a grade obtained by a student for a particular subject, initially numeric marks obtained by the student out of 100 (hundred) is to be determined. For subjects where the laboratory component (**P**-component) is non-zero, separate marks, each out of 100 (hundred), in the theory component (**L**- & **T**- components) and the laboratory component are to be ascertained first. Next the failure cases (that is, the cases of student obtaining ‘**F**’ grade) are to be determined as explained in **Appendix - IV**.
- (b) Once the numeric mark is obtained, the same is to be converted to letter grade following the guidelines given in **Appendix - IV**.
- (c) For subject in which the theory component is greater than **1 (one)**, the subcomponents and the respective weights assigned to these are given below (**Senate Res. No. 61.A.E.3 & 61.A.E.4**).

Subcomponent	Weightage
Assessment (Assignments, quizzes, attendance, etc.)	20% - 35%
Mid-Semester Examination	25% - 30%
End-Semester Examination	40% - 50%



- (d) For assigning marks in **Assessment (Assignments, quizzes, attendance, etc)** performance in home assignments, class-tests, tutorials, viva-voce, attendance etc. are to be considered. At least two class tests are to be conducted for a subject. The weightage of different subcomponents as mentioned in the table in **Clause 11.1(c)** are to be fixed and announced by the subject teacher as per **Clause 11.1(c)** beforehand and the same must be entered in ERP during the subject registration in the beginning of the semester. The weights of the Assessment subcomponents are to be announced by the teacher at the beginning of the Semester. In case of two or more teachers sharing a course, the weightage of evaluation followed by both the teachers must be same.
- (e) **Course with L-T-P structure 2-0-2:** The teachers may follow the recommendation mentioned above for the evaluation method for courses with **L-T-P structure 2-0-2**. If the teacher wishes so, can conduct computer based examination for mid-semester and end-semester examinations. If the subject teacher gives a computer-based examination, that should be declared well in advance before the examination schedule.
- (f) For subjects **in which the lecture (L) component of the L-T-P structure is 1 (one)**, there would be no Mid-Semester or End-Semester Examinations. The marks of the theory component would be decided by performance in class-tests, home assignments, tutorials (if any), viva-voce, attendance etc. At least two class tests are to be conducted for the theory component of such a subject. The weights of different subcomponents are to be announced by the teacher at the beginning of the Semester.
- (g) For assigning marks in the laboratory component (**P-component**) the relevant subcomponents that are to be considered are: day-to-day work, regularity, tests (at least two must be conducted), assignments, viva-voce etc. Percentage weights of the different subcomponents in deciding the final marks are to be announced at the beginning of the Semester.

## 11.2 Assessment of Project and School Experience:

- a. Performance in the various activities involved in the project and/or the ‘School Experience’ (Component No. 6 in the ITEP curriculum framework published by the National Council for Teacher Education (NCTE)) component of the programme would be assessed individually at the end of the semester in which it is being carried out as per the curriculum. The student is required to submit a written report at the end of the semester. The Head of the School would appoint a project evaluation board for the purpose of assessment. The different components of evaluation and the weights assigned to these components are depicted below:

Subcomponent	Weightage
Supervisor’s assessment	40%
Report	20%
Viva-voce conducted by evaluation board	40%

The student is required to submit a report for each of the courses which are part of the ‘School Experience’ component and/or part of the project. The student may be asked to give a seminar on the project work done by the evaluation board. The evaluation board would conduct the viva-voce based on the report submitted and/or seminar given. The viva-voce will be held **within ten days** after the end-semester examination and the dates would be announced in the academic calendar.

- b. If a student due to non-completion of the project work cannot submit the final project report at the end of the semester and does not appear before the evaluation board for the viva-voce on the date fixed by the school in conformity with the academic calendar, may be granted extension of time not exceeding two months on the following conditions:
- I. He/she would be awarded one grade lower than the grade obtained by him/her, and
  - II. He/she would be deemed to have completed the requirements for the degree if applicable in the succeeding session.

## 12. Examination:

12.1 The Academic Section of the Institute will conduct the mid-semester and the end-semester examinations in respect of the theory component of the subjects unless otherwise permitted.

- (i) A student will be allowed to appear in an examination, only if he/she has:
  - a. attendance record to the satisfaction of the teachers in the theory and laboratory classes and has completed the assignment works given,
  - b. paid all Institute and Hall dues of the Semester, and
  - c. not been debarred from appearing in the examination as a result of disciplinary proceedings.
- (ii) A student may be debarred from appearing at the mid-semester or end-semester examination on the report of a Teacher/Head of the School, if his/her
  - a. attendance at lecture/tutorial/laboratory classes has not been satisfactory during the period, and/or
  - b. performance in the assignment work during the semester has not been satisfactory.

12.2(i) Class tests, mid-semester examinations, assignments, tutorials, viva-voce, laboratory assignments, etc., are the constituent components of continuous assessment process, and a student must fulfill all these requirements as prescribed by the Teacher/Head of the Schools. If due to any compelling reason (such as his/her illness, calamity in the family, etc.) a student fails to meet any of the requirements within/on the scheduled date and time, the Teacher in consultation with the concerned Head of the School may take such steps (including conduction of compensatory tests/examinations) as are deemed fit.

- (ii)a. Appearing in the end-semester examination in the theory component of a subject is compulsory for a student, unless exempted as per **Clause 12.2(ii)(b)** stated below. If a student fails to appear in the end-semester examination, he/she will be assigned an 'I' grade in the subject and will not be permitted to register in the summer quarter or appear at the supplementary examination. In such a case, the student has to re-register for the subject in the next available semester.

b. However, if a student misses the end-semester examination due to a compelling reason like serious illness of himself/herself or a calamity in the family, he/she may appeal to the **Dean (UGP)**, through his/her Head of the School for permitting himself/herself to register in the summer quarter or appear at the supplementary examination(s), as the case may apply. A sub-committee of the Undergraduate Program & Evaluation Committee (**UGPEC**) consisting of the following members may, after examining the documents and being convinced about the merit of the case, recommend permitting him/her to register in the summer quarter or appear in the supplementary examination(s) **with full credit** condoning his/her absence:

(i)	Dean (UGP)	-	Chairperson
(ii)	Dean (Student Affairs)	-	Member
(iii)	Medical Officer of the Institute	-	Member
(iv)	Assistant/Deputy Registrar (Academics)	-	Member Secretary

The supplementary examination(s) rules in detail are stated in **Appendix – V** and Summer Quarter rules are stated in **Appendix-VI**.

12.3 Students will be permitted to appear in the examinations in only those subjects for which they have registered at the beginning of the semester and has not been debarred.

- 12.4 The final grades awarded to the students in a subject must be uploaded by the Teacher in ERP, as per the deadline in Academic Calendar and submit a signed hard copy through the Head of the School to the Academic Section.
- 12.5 Any change of grade of a student in a subject, consequent upon detection of any genuine error of omission and/or commission on part of the concerned teacher, must be approved by the School UG academic committee and must be forwarded by the Teacher through the Head of the concerned School within 20 (twenty) days from the date of commencement of the next Semester. The Grade Revision Format approved for this purpose by the Senate be used.
- 12.6 For the benefit of and as a process of learning by the students, the answer scripts after correction of all class tests, mid-semester examinations, assignments etc would be shown to the students within 4 weeks from the date of tests/examinations. The answer scripts of the end-semester examinations are to be shown within 15 days from the date of commencement of the next semester.
- 12.7 In order to provide an additional opportunity to the students who failed (obtained an ‘F’ grade) in one or more subjects, due to not being able to score higher than the cut-off marks in the theory components, there will be a Supplementary Examination. Regulations for the Supplementary Examination are given in **Appendix-V**.
- 12.8 With a view to assist the students who failed in one or more subjects in the autumn and/or spring semester in a year, a summer quarter will be conducted during the immediately following summer vacation for making up their deficiency and improve the performance. The regulations for running the Summer Quarter are given in **Appendix-VI**.

### 13 Degree Requirement:

- 13.1 In order to qualify for a B.Sc.-B.Ed. degree of the Institute covered under these Regulations, a student must:
- a. Complete all the credit requirements for the degree, as laid down in the prescribed curriculum of the discipline, with a minimum grade ‘P’ scored in every subject.
  - b. Obtain a **CGPA of 6.00 or higher** at the end of the semester in which he/she completes all the requirements for the degree.
  - c. Have cleared all dues to the Institute, the Hall of Residence, the Library and the School.
- 13.2 The minimum total credit requirements that has to be satisfactorily completed for the award of a degree is depicted below:

Discipline	Credit required
Chemistry	160
Economics	160
Mathematics	160
Physics	160

- 13.3 Normally a student should complete all the requirements consecutively in **eight semesters** for B.Sc.-B.Ed. degree. However, academically weaker students may be granted time up to **12 semesters** for B.Sc.-B.Ed. degree. In special cases the Senate may further extend this limit for completion of the requirements for the degree.
- 13.4 A student, whose academic records at the end of any semester clearly indicate that he/she will not be able to qualify for the degree for which he/she had been admitted within the limits of time specified in **Clause 13.3** above, shall have to discontinue studies and leave the Institute when asked to do so.

## **14 Withdrawal from the Institute:**

- 14.1 A student who has been admitted to a degree course of the Institute may be permitted to withdraw temporarily for a period of one semester or more from the Institute on grounds of prolonged illness or acute problem in the his/her family, which compelled him/her to stay at home, provided:
- a. he/she applies to the Institute **within 15 days** of the commencement of the semester or from the date he/she last attended his/her classes whichever is later, stating fully the reasons for such withdrawal together with supporting documents and endorsement of the father/guardian.
  - b. the Institute is satisfied that, inclusive of the period of withdrawal, the student is likely to complete his/her requirements for the degree within the time limits specified in **Clause 13.3**.
  - c. there are no outstanding dues or demands from him/her by the Institute /Hall of Residence /School /Library /Gymkhana.
- 14.2 A student who has been granted temporary withdrawal from the Institute under the provisions of **Clause 14.1** will be required to pay the tuition fee and other essential fees/charges for the intervening period till such time as his/her name is borne on the rolls.
- 14.3 A student will be granted only one such temporary withdrawal during his/her tenure as a student of the Institute.

## **15 Termination of Studentship:**

The studentship shall be terminated (1) if he/she remains absent from classes or leave the campus without any intimation to the Institute authorities, and do not register for three (03) consecutive semesters and (2) the same rule also be applicable for those students who would register online by merely paying necessary fees but do not report to the campus as per the academic calendar, do not attend any classes and away from the campus, for three (03) consecutive semesters. [Ref. Senate Res.44. A.B.15 & 44.A.C.4]

## **16 Relaxation:**

The Senate may, under exceptional circumstances, consider any case of a student having a minor deficiency in respect of any of the requirements stated in these Regulations and relax the relevant provision of these Regulations based on the merit of the case. The grounds on which such relaxation is granted shall invariably be recorded and cannot be cited as precedence.

## **17 Conversion of CGPA into percentage of marks:**

In case of a specific query by students/employers regarding conversion of CGPA into percentage of marks, the following formula be adopted for 'notional conversion of CGPA into percentage of marks'. [Senate Res. 37.A.E.1]

**Formula: Marks in percentage = 10 \* CGPA (notional)**

## **18 Medal and Prizes:**

A list of medals and prizes that the Institute awards from its own fund and the rules that govern such awards are stated in **Appendix - VIII**.

**RULES RELATING TO RESIDENCE REQUIREMENTS**  
(Vide **Clause 4.1** of the Regulations)

**Following are the detailed rules governing residence requirements of students:**

1. The mess of each Hall of Residence shall function as a single integrated unit and shall not, under any circumstances be sub-divided into any kind of groups or sub-groups.
2. Under special circumstances, the Director / Dean (Student Affairs) may permit a student to reside with his Parent/Guardian in the Institute Campus or within a reasonable distance from the Institute. Such a student shall, however, be attached to a Hall of Residence and will be required to pay seat rent according to rules, and Hall establishment charges fixed by the **Hall Management Committee (HMC)** and the Warden of the Hall. However, this permission may be withdrawn at the discretion of the Institute, at any time considered appropriate without assigning any reason.
3. No married accommodation shall be provided to any student of the undergraduate courses.
4. No student shall come into or give up the assigned accommodation in any Hall of residence without the prior permission of the Chairperson, HMC/Warden.
5. A student shall reside in a room allotted to him/her and may shift to any other room only under the direction/permission of the Warden.
6. Students shall be required to make their rooms available whenever required for inspection, repairs, maintenance or disinfecting and shall vacate the rooms when leaving for the vacations/holidays.
7. Students shall be responsible for the proper care of the furniture, fan and other fittings in the rooms allotted to them and shall generally assist the Warden in ensuring proper use, care and security of those provided in the Halls of common use of all students.
8. Students will be responsible for the safe keeping of their own property. In the event of loss of any personal property of a student due to theft, fire or any other cause, the Institute shall accept no responsibility and shall not be liable for payment of any compensation.
9. Engaging personal attendants, keeping pets and use of appliances like electric heater, refrigerator, air conditioner, air cooler etc., by a student in the Hall of Residence are prohibited.
10. All students must abide by the rules and regulations of the Hall of Residence as may be framed from time to time.

## APPENDIX – II

### RULES REGARDING ATTENDANCE (Vide *Clause 5.3* of the Regulation)

#### Following are the rules relating to attendance at classes:

1. Attendance in all classes (lectures, tutorials, laboratories etc.) is compulsory. A student may be debarred from appearing at an examination on the ground of unsatisfactory attendance.
2. The teacher concerned may condone absence from classes for a very short period due to unavoidable reasons provided he/she is satisfied with the explanation.
3. (a) If the period of absence is for a **short duration (of not more than two weeks)** application for leave shall have to be submitted to **the Head of the School** concerned stating fully the reasons for the leave requested for along with supporting document(s). The Head of the School may grant such leave.  
  
(b) Absence for a period not exceeding two weeks in a semester due to sickness or any other unavoidable reason for which prior application could not be made may be condoned by the Head of the School provided he/she is satisfied with the explanation.
4. If the period of absence is likely to **exceed two weeks**, a prior application for grant of leave will have to be submitted through the Head of the School to **the Dean (Under Graduate Programme)**, with the supporting document(s). The decision to grant or condone such leave shall be taken by the **Dean (Under Graduate Programme)** after considering the recommendation of the Head of the School.
5. It will be the responsibility of the student to get his/her absence from classes condoned by the appropriate authority.
6. A student must intimate his/her absence to the **Warden of the Hall of Residence** in which he/she is residing, before availing of any leave. Failing to do so will be construed as breach of discipline and will be dealt with as per provisions in **Appendix – III**.

**RULES REGARDING CONDUCT AND DISCIPLINE**  
(Vide *Clause 6.2* of the Regulations)

**Following rules shall be in force to govern the conduct and discipline of all students:**

1. Students shall show due respect to the teachers of the Institute, the Wardens of the Halls of Residence, the Sports Officers of the Gymkhana and the Officers of the National Cadet Corps; proper courtesy and consideration should be extended to the employees of the Institute and of the Halls of Residence. They shall also pay due attention and courtesy to the visitors.
2. Students are required to develop a friendly relationship with fellow students. In particular, they are expected to show kindness and consideration to the new students admitted to the Institute every year. **Law bans ragging in any form to anybody – acts of ragging will be considered as gross indiscipline and will be severely dealt with.**
3. The following acts of omission and/or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures:
  - Ragging.
  - Furnishing false statement of any kind in the form of application for admission or for award of scholarship etc.
  - Displaying lack of courtesy and decorum; resorting to indecent behavior anywhere within or outside the campus.
  - Willfully damaging or stealthily removing any property/belongings of the Institute, the Hall of Residence or fellow students.
  - Possession, consumption or distribution of alcoholic drinks or any kind of hallucinogenic drugs.
  - Involvement in misuse of internet/e-mail facilities or tempering/hacking with servers anywhere in the Hall of Residence/Schools/Library/Centre etc.
  - Adoption of unfair means in the examinations.
  - Organizing or participating in any group activity in company with others in or outside the campus without prior permission of the Dean (Student Affairs).
  - Mutilation or unauthorized possession of library books.
  - Resorting to noisy and unseemly behavior, disturbing studies of fellow students.
  - Not intimating his/her absence to the warden of the Hall before availing any leave.

Commensurate with the gravity of the offence, the punishment may be reprimand, fine, expulsion from the Hall of Residence, debarment from an examination, rustication for a specified period or even outright expulsion from the Institute.
4. For an offence committed (a) in a Hall of Residence, (b) in the School or a classroom and (c) elsewhere, the Warden, the Head of the School and the Dean (Student Affairs), respectively, shall have the authority to reprimand or impose fine or take any other suitable measure. All cases involving punishment other than reprimand shall be reported to **the Chairperson of the Institute Standing Committee for Student Misconduct**.
5. (a) All major acts of indiscipline, which may have serious repercussion on the general body of students, and/or which may warrant a uniform and more formalized nature of investigation, shall be handled by the **Institute Standing Committee for Student Misconduct** appointed by Senate. The **Institute Standing Committee for Student Misconduct** consists of the following ex-officio and other members: [Ref. Senate Res. No. 58.A.G.1]

(i)	<i>Dean UGP (for examination misconduct cases of UG students) Dean PGRP (for examination misconduct cases of PG and Research students) Dean Student Affairs (for all other misconduct cases)</i>	- Chairperson
(ii)	<i>Head of the concerned School (for examination misconduct cases) Chief Warden (for all other misconduct cases)</i>	- Member
(iii)	<i>Person reporting the misconduct by the students (PIC- Examination/Invigilators/Warden/Faculty/Staff/Security staff etc.)</i>	- Member
(iv)	<i>Subject Teacher (for examination misconduct cases) Warden of concerned Hall of Residence (for all other misconduct case)</i>	- Member
(v)	<i>Vice-President, Students' Gymkhana</i>	- Student Member
(vi)	<i>Assistant/Deputy Registrar (Academic) (for examination misconduct cases) Assistant Librarian (for all other misconduct cases)</i>	- Member Secretary

In addition, the Chairperson may invite any other person(s) to be associated with the proceedings of a specific case, if necessary.

- (b) All types of misconduct cases by students are to be reported to **the Office of the Student Affairs** and it would be taken up for investigation by the above Committee. The Committee's recommendations are to be submitted to the Director for consideration.



## APPENDIX – IV

### GUIDELINES FOR AWARD OF LETTER GRADES

(Vide *Clause 11.2(a) and (b)* of the Regulations)

1. In general, there shall be no rigid marks-to-grade linkage. Difficulty levels of the examinations, tests, assignments, viva-voce and other factors that contributed to the final marks are to be considered by the teacher/co-ordination committee of a subject while converting marks into letter grades.
2. (a) The grades 'F' and 'Ex' are to be considered as bench mark grades.  
(b) The exceptionally brilliant performance is to be assigned an 'Ex' grade. Even the best student of any class needs to be good enough to be awarded the 'Ex' grade
3. (a) The following guidelines of cut-off for different grades in respect of large classes of size more than 50.

Grade	From(Cut-off)	To(<)	Approximate % of Students in the range
Ex	$\geq \mu + 1.65 \sigma$		5
A	$\mu + 0.85 \sigma$	$\mu + 1.65 \sigma$	15
B	$\mu + 0.12 \sigma$	$\mu + 0.85 \sigma$	25
C	$\mu - 0.65 \sigma$	$\mu + 0.12 \sigma$	30
D	$\mu - 1.3 \sigma$	$\mu - 0.65 \sigma$	15
P & F		$\mu - 1.3 \sigma$	10
$\mu$ - Mean Marks of the class $\sigma$ - Standard Deviation of the mark of the class			

- (b) The following guidelines of cut-off for different grades in respect of medium classes of size between 20 and 50.

Grade	Approximate % of Students in the range
Ex, A	Top 30 %
B, C, D	Next 60 %
P, F	Next 10 %

4. There is no specific guideline recommended for small classes (less than 20).
5. In the case where a student appears in the supplementary examination, the conversion from marks to grade would be done applying the same norm as was framed for the original class.
6. Co-ordination committee would moderate the results of the different sections of a class if wide disparity in performance across sections were observed.
7. All the requirements for the laboratory component are to be satisfied by a student within deadline set-up by the teacher/co-ordination committee before the start of the end-semester examination. If a student due to a genuine reason **like illness of himself/herself or calamity in the family**

cannot complete a particular sub-component, the teacher/co-ordination committee may allocate him/her additional time. In this case an '**I**'-grade if needed may temporarily be allocated to the student in the subject. However, the requirement in any case has to be fulfilled **within 15 days** after the end of the end-semester examination and the grade finalized.

8. There is no provision for supplementary examination in the laboratory component. If a student cannot clear the laboratory component of a particular subject, he/she will be assigned the grade '**F**' in that subject and has to re-register in the subject, if permitted, in the immediately following semester in which it is offered.

**NOTE (Regarding SI No. 3 & 4 of this Appendix):** The proposed grading process provides the good initial guess. The faculties can tweak the grades slightly to take care of the proper distribution of the grades. The actual cut-off marks may be slightly adjusted so as to fall in the gaps in the actual spread of marks in the class, if possible.

**RULES REGARDING SUPPLEMENTARY EXAMINATION**

(Vide **Clause 12.2 and 12.7** of the Regulation and **Ref. Senate Res. No. 62.A.D.3**)

1. Except as specified in **Clause 12.2(ii)(b)**, a student will be eligible to appear in the supplementary examination in a subject if he/she had actually appeared at the last end-semester examination in that subject and obtained the grade 'F'. **There is no provision for supplementary examination in the subject where L-T-P is of the form 0-0-P.**
2. A student will be allowed for supplementary examination only once for a particular subject in an Academic Year with total number of subjects **5 (Five)** in each supplementary examination as per regulation.
3. Intending students must submit their applications, countersigned by the teacher(s) of the subject(s) or the Head of the School concerned, along with the necessary fees to the **Assistant/Deputy Registrar (Academic)** by the date as announced by a notification.
4. The supplementary examinations shall be held on such dates as laid down in the Academic Calendar for the year or as notified separately.
5. For Autumn Semester, the supplementary examinations will now be conducted during the first week of the following Spring Semester. The students who have failed in a subject in Autumn Semester can take this supplementary examination.
6. Pending the results of supplementary examinations, the students may be allowed provisional registrations in the Spring Semester subjects for which the supplementary examination subject is a prerequisite and for which he/she is due to take supplementary examination. Based on the supplementary examination results, the Spring Semester subject registration may be regularized by the Faculty Advisor.
7. The supplementary examination schedule will be prepared centrally by the **PIC (Examination)**; but the examination will be executed/conducted in a **decentralized** manner by the School Examination Coordinators under the supervisory control of the respective Heads of School.
8. The answer scripts can be directly handed over to the concerned subject teachers by the respective school examination coordinators. As per practice, the provisions will be there in ERP for submission of the grades.
9. For Spring Semester, the supplementary examinations will be conducted along with the Summer Quarter end-term examinations.
10. The grade in the subject scored by the student appearing in the supplementary examination will be recomputed by substituting the marks of the end-semester in the total marks scored by that scored in the supplementary examination. Unless exempted as per regulation in **Clause 12.2 (ii) (b)**, a student is entitled only to one grade lower than the actual grade thus scored, except that the performance grade 'P' remains unaltered, as elucidated in the table below:

Grade obtained	Grade to be awarded
<b>F</b>	<b>F</b>
<b>P</b>	<b>P</b>
<b>D</b>	<b>P</b>
<b>C</b>	<b>D</b>
<b>B</b>	<b>C</b>
<b>A</b>	<b>B</b>
<b>Ex</b>	<b>A</b>

11. For the students who are unable to take the End-Semester examinations (both Autumn and Spring) due to emergency situations (personal health issues, family calamity etc.), they are allowed to appear at the Autumn / Spring Supplementary examination, with full credits (no reduction in obtained grades). The student is required to apply to the **Dean (UGP)** through the Head of School with all supporting documents immediately after the situation is overcome. The Head of the School after verification of documents, will forward the application for further decision as per regulation.
12. The final grades awarded to the students must be uploaded in the ERP and the hard copy be sent to the Assistant/Deputy Registrar (Academic) **within 3 days** from the date the supplementary examination was held.

**RULES RELATING TO SUMMER QUARTERS**  
(Vide **Clause 12.2 and 12.8** of the Regulations)

**1. Introduction.**

To enable the students to make up deficiencies, a Summer Quarter will be organized every year during the summer vacation. Summer Quarter shall, however, be offered only in the theory components of the subjects.

**2. Duration.**

- 2.1 The duration of the Summer Quarter shall be seven weeks from around the middle of May till around the end of June. The exact dates for holding the Summer Quarter for a particular session shall be decided by the Senate every year while finalizing the Academic Calendar.
- 2.2 The attendance requirement for the Summer Quarter shall be the same as for a regular semester. A student who does not satisfy the norms will not be allowed to appear at the examination.

**3. Eligibility**

- 3.1 Only those students will be permitted to register themselves for a subject offered in the Summer Quarter who have cleared all Institute and Hall dues till date and have paid the necessary fees and Mess Advances for the Summer Quarter for which they are registering.
- 3.2 A student will be eligible to register in a subject if he/she actually appeared at the last end-semester examination in that subject and obtained the grade 'F'. There is no provision for summer quarter in the laboratory component.
- 3.3 The summer quarter subjects (if offered) are open for all students who have failed in Autumn Semester or Spring Semester. Students those have appeared in the Autumn Supplementary examination are eligible for Summer Quarter. [**Senate Res. No. 62.A.D.3**]
- 3.4 A student, who could not appear at the end semester examination due to self-illness or calamity in the family, will also be eligible to register for the subjects concerned in the Summer Quarter as per **Clause 12.2(ii)(b)** if his/her attendance was satisfactory in the judgement of the teacher.
- 3.5 No Supplementary Examination shall be held in a subject that is being offered in the Summer Quarter of the session unless extraordinary circumstances justify it.
- 3.6 Students who have obtained **CGPA** lower than **6.00** may be allowed, on the recommendation of the Head of the School and the approval of **the Dean (UGP)**, to re-register in one or more subjects in which he/she received 'P' grade(s), so as to improve his/her **CGPA** to **6.00** or above, provided that the subject(s) is/are otherwise being offered in that semester and there is no clash in the time table. The grade will be revised and recorded only if there is an improvement.

**4. Registration**

- 3.1 All students intending to join a Summer Quarter must register themselves for the subjects concerned on the day fixed for the purpose. No late registration shall be permitted on any ground.
- 3.2 A prevalent Summer Quarter registration fee, as decided by the Institute from time to time shall have to be paid along with the application in a prescribed form.
- 3.3 Registration of students for the Summer Quarter in a subject shall be done by the Faculty Adviser in the School concerned under the supervision of the Head of the School.
- 3.4 The weekly lectures and tutorials of a subject taught in the Summer Quarter shall be twice the corresponding loading it carries during the normal semester. The credits allotted to it shall, however, remain the same.
- 3.5 A student shall not be allowed to register for more than **two subjects** during a Summer Quarter.
- 3.6 **Summer Quarter in a subject shall be offered only if at least 5 students register for that subject.**

**3.7** If a subject is offered in the Summer Quarter, students will not be allowed to sit for Supplementary examination on that particular subject except as specified in the regulation. (**Ref: Senate Res. No. 20.C.B.1**)

## **5. Assessment**

The teacher offering a particular subject during the Summer Quarter shall

- 5.1** Take care of all aspects of the theory component of the subject, viz., lectures, tutorials, assignments etc.
- 5.2** Conduct all class tests, mid-semester examination, end-semester examination, viva-voce etc. The end-semester examinations may, however, be centrally arranged.
- 5.3** Compute the grade as per rules laid down in **Clauses 11.1(a) through (g)**. The contribution of the laboratory component, if any in the subject, ascertained in the original semester has to be used for computing the numeric marks out of **100**.
- 5.4** The grades awarded to the registered students must be sent to the Assistant/Deputy Registrar (Academic) **within 3 days** from the date the examination was held.

**COURSE STRUCTURE FOR BSC-BED PROGRAMME (UNDER ITEP)**

(Vide Clause 7.4 of the Regulations)

**Curriculum for the 4<sup>th</sup> year B.Sc-B.Ed Programme (under ITEP) at IIT Bhubaneswar****Semester 7**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Curriculum Planning & Development (textbooks, material development, etc.) - (Stage Specific)	ED4L001	2-0-0	2	
2	Perspectives on School Leadership and Management	ED4L002	2-0-0	2	
3	Art (Performing and Visual) & Creative Expressions	HS4L021	0-0-3	2	
4	Sports, Nutrition and Fitness	ED4L003	0-0-3	2	
5	School-based Research Project	ED4L004	0-0-3	2	
6	Internship in Teaching	ED4L005	0-0-15	10	
Total Credits				20	

**Semester 8**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Citizenship Education, Sustainability and Environment Education	HS4L022	2-0-0	2	
2	Education Policy Analysis	ED4L006	2-0-0	2	
3	Philosophical & Sociological Perspectives of Education-II	HS4L023	3-1-0	4	
4	Yoga and Understanding Self	HS4L024	2-0-0	2	
5	Depth Elective I (Education Major)		3-1-0	4	
6	Creating Teaching Learning Material/Work Experience (Educational Toy making, local/traditional vocations, etc.)	ED4L007	0-0-3	2	
7	Post Internship (Review and Analysis)	ED4L008	0-0-3	2	
8	Community Engagement and Service	ED4L009	0-0-3	2	
Total Credits				20	

**Semester-Wise Curriculum Structure for B.Sc.-B.Ed. (Major in Physics) Under ITEP**  
(Credit Structure: Discipline Major - 64, Minor - 21)

**Major:**

**Semester 1**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 1 (as per the 8th schedule of the Constitution of India): <b>Sanskrit</b>	HS1L005	3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L006	2-0-0	2	
3	Evolution of Indian Education	HS1L003	3-1-0	4	
4	Mechanics, Waves and Oscillations	PH1L301	3-0-0	3	Core/Discipline Course
5	Physics Lab I (Mechanics, waves, and Oscillations)	PH1P301	0-0-3	2	Core/Discipline Course
6	Art (Performing and Visual) & Creative Expressions	HS1L004	0-0-3	2	
Total Credits				17	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Mechanics, Waves and Oscillations	PH1L301	3-0-0	3	
2	Physics Lab I (Mechanics, waves, and Oscillations)	PH1P301	0-0-3	2	
Total Credits				5	

**Major:**

**Semester 2**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 2 (Other than L1): <b>English for Communication/Learning English</b>	HS1L001/ HS1L002	3-0-2/ 3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L007	2-0-0	2	
3	Teacher and Society	ED1L001	2-0-0	2	
4	Electricity, and Magnetism	PH1L302	3-0-0	3	Core/Discipline Course
5	Mathematical Physics I	PH1L303	3-0-0	3	Core/Discipline Course
6	Basic Electronics (+Electronics Lab)	PH1L304	3-0-2	4	Core/Discipline Course
Total Credits				18	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Electricity, and Magnetism	PH1L302	3-0-0	3	
2	Mathematical Physics I	PH1L303	3-0-0	3	
Total Credits				6	

**Major:**

**Semester 3**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Child Development and Educational Psychology	HS2L011	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L001	3-1-0	4	
3	Electromagnetic waves and Optics	PH2L301	3-0-0	3	Core/Discipline Course
4	Quantum Physics I	PH2L302	3-0-0	3	Core/Discipline Course
5	Physics Lab II (Optics and Modern Physics)	PH2P301	0-0-6	4	Core/Discipline Course
Total Credits				18	



**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Electromagnetic waves and Optics(Optics Lab)	PH2L301	3-0-0	3	
2	Quantum Physics I	PH2L302	3-0-0	3	
Total Credits				6	

**Major:****Semester 4**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Philosophical & Sociological Perspectives of Education -I	HS2L012	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L002	3-1-0	4	
3	Thermal Physics	PH2L303	3-1-0	4	Core/Discipline Course
4	Computational Physics	PH2L304	2-2-0	4	Core/Discipline Course
5	Classical Mechanics	PH2L305	3-0-0	3	Core/Discipline Course
Total Credits				19	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Thermal Physics	PH2L303	3-1-0	4	
Total Credits				4	

**Major:****Semester 5**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	ICT in Education	ED3L001	2-0-0	2	
2	Pedagogy (Major/Minor)	ED3L002	3-1-0	4	
3	Condensed Matter Physics	PH3L301	3-1-0	4	Core/Discipline Course
4	Quantum physics-II	PH3L302	3-1-0	4	Core/Discipline Course
5	Mathematical Physics II	PH3L303	3-0-0	3	Core/Discipline Course
5	Advanced Experimental Techniques	PH3P301	1-0-3	3	Core/Discipline Course
6	Pre-internship Practice (Demo lessons, Peer teaching)	ED3L003	0-0-0	2	
Total Credits				22	

**Major:****Semester 6**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Assessment and Evaluation	ED3L004	2-0-0	2	
2	Inclusive Education	ED3L005	2-0-0	2	
3	Pedagogy (Major and Minor)	ED3L006	3-1-0	4	
4	Mathematical & Quantitative Reasoning	ED3L007	2-0-0	2	
5	Statistical Mechanics	PH3L304	3-1-0	4	Core/Discipline Course
6	Nuclear and Particle Physics	PH3L305	3-1-0	4	Core/Discipline Course
7	Project	PH3D301	0-0-0	6	Core/Discipline Course
8	School Observation (Field Practice)	ED3L008	0-0-0	2	
Total Credits				26	

**Semester-Wise Curriculum Structure for B.Sc.-B.Ed. (Major in Mathematics) Under ITEP**  
(Credit Structure: Discipline Major - 64, Minor - 20)

**Major:**

**Semester 1**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 1 (as per the 8th schedule of the Constitution of India): <b>Sanskrit</b>	HS1L005	3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L006	2-0-0	2	
3	Evolution of Indian Education	HS1L003	3-1-0	4	
4	Calculus and Analytic Geometry	MA1L301	3-1-0	4	Core/Discipline Course
5	Linear Algebra	MA1L302	3-1-0	4	Core/Discipline Course
6	Art (Performing and Visual) & Creative Expressions	HS1L004	0-0-3	2	
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Calculus and Analytic Geometry	MA1L301	3-1-0	4	
2	Linear Algebra	MA1L302	3-1-0	4	
Total Credits				8	

**Major:**

**Semester 2**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 2 (Other than L1): <b>English for Communication/Learning English</b>	HS1L001/ HS1L002	3-0-2/ 3-1-0	4	As suggested
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L007	2-0-0	2	As suggested
3	Teacher and Society	ED1L001	2-0-0	2	As suggested
4	Probability and Statistics	MA1L303	3-1-0	4	Core/Discipline Course
5	Real Analysis	MA1L304	3-1-0	4	Core/Discipline Course
Total Credits				16	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Probability and Statistics	MA1L303	3-1-0	4	
Total Credits				4	

**Major:**

**Semester 3**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Child Development and Educational Psychology	HS2L011	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L001	3-1-0	4	
3	C-programming with LAB	MA2L301	3-0-2	4	Core/Discipline Course
4	Discrete Mathematics	MA2L302	3-1-0	4	Core/Discipline Course
5	Differential Equation	MA2L303	3-1-0	4	Core/Discipline Course
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	C-programming with LAB	MA2L301	3-0-2	4	
Total Credits				4	

**Major: Semester 4**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Philosophical & Sociological Perspectives of Education -I	HS2L012	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L002	3-1-0	4	
3	Numerical Methods	MA2L304	3-1-0	4	Core/Discipline Course
4	Abstract Algebra	MA2L305	3-1-0	4	Core/Discipline Course
5	Optimization techniques	MA2L306	3-1-0	4	Core/Discipline Course
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Numerical Methods	MA2L304	3-1-0	4	
Total Credits				4	

**Major: Semester 5**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	ICT in Education	ED3L001	2-0-0	2	
2	Pedagogy (Major/Minor)	ED3L002	3-1-0	4	
3	Elementary Number Theory	MA3L301	3-1-0	4	Core/Discipline Course
4	Graph theory	MA3L302	3-1-0	4	Core/Discipline Course
5	Elective (Functions of Several Variables/ Fluid Dynamics/ Topology)	MA3L303/ MA3L304/ MA3L305	3-1-0	4	Core/Discipline Course
6	Seminar	MA3S301	0-0-3	2	Core/Discipline Course
7	Pre-internship Practice (Demo lessons, Peer teaching)	ED3L003	0-0-0	2	
Total Credits				22	

**Major: Semester 6**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Assessment and Evaluation	ED3L004	2-0-0	2	
2	Inclusive Education	ED3L005	2-0-0	2	
3	Pedagogy (Major and Minor)	ED3L006	3-1-0	4	
4	Mathematical & Quantitative Reasoning	ED3L007	2-0-0	2	
5	Complex Analysis	MA3L306	3-1-0	4	Core/Discipline Course
6	Rings and Fields	MA3L307	3-1-0	4	Core/Discipline Course
7	Project	MA3D301	0-0-3	2	Core/Discipline Course
8	School Observation (Field Practice)	ED3L008	0-0-0	2	
Total Credits				22	

**Semester-Wise Curriculum Structure for B.Sc.-B.Ed. (Major in Chemistry) Under ITEP**  
(Credit Structure: Discipline Major -64, Minor -22)

**Major: Semester 1**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 1 (as per the 8th schedule of the Constitution of India): <b>Sanskrit</b>	HS1L005	3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L006	2-0-0	2	
3	Evolution of Indian Education	HS1L003	3-1-0	4	
4	Basic Organic Chemistry	CY1L301	4-0-0	4	Core/Discipline Course
5	Organic Lab- I	CY1P301	0-0-3	2	Core/Discipline Course
6	Art (Performing and Visual) & Creative Expressions	HS1L004	0-0-3	2	
Total Credits				18	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Basic Organic Chemistry	CY1L301	4-0-0	4	
2	Organic Lab- I	CY1P301	0-0-3	2	
Total Credits				6	

**Major: Semester 2**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 2 (Other than L1): <b>English for Communication/Learning English</b>	HS1L001/ HS1L002	3-0-2/ 3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L007	2-0-0	2	
3	Teacher and Society	ED1L001	2-0-0	2	
4	Organic Reaction Mechanism	CY1L302	4-0-0	4	Core/Discipline Course
5	Introduction to physical Chemistry	CY1L303	4-0-0	4	Core/Discipline Course
6	Physical Lab- I	CY1P302	0-0-3	2	Core/Discipline Course
Total Credits				18	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Introduction to physical Chemistry	CY1L303	4-0-0	4	
2	Physical Lab- I	CY1P302	0-0-3	2	
Total Credits				6	

**Major: Semester 3**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Child Development and Educational Psychology	HS2L011	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L001	3-1-0	4	
3	Thermodynamics and colligative Properties	CY2L301	4-0-0	4	Core/Discipline Course
4	Organic Spectroscopy	CY2L302	4-0-0	4	Core/Discipline Course
5	Basic Inorganic Chemistry	CY2L303	4-0-0	4	Core/Discipline Course
6	Inorganic Lab- I	CY2P301	0-0-3	2	Core/Discipline Course
Total Credits				22	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Basic Inorganic Chemistry	CY2L303	4-0-0	4	
2	Inorganic Lab- I	CY2P301	0-0-3	2	
Total Credits				6	

**Major:****Semester 4**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Philosophical & Sociological Perspectives of Education -I	HS2L012	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L002	3-1-0	4	
3	Chemical Equilibrium and Electrochemistry	CY2L304	4-0-0	4	Core/Discipline Course
4	Main Group and Transition Metal Chemistry	CY2L305	4-0-0	4	Core/Discipline Course
5	Industrial and Polymer Chemistry	CY2L306	4-0-0	4	Core/Discipline Course
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Industrial and Polymer Chemistry	CY2L306	4-0-0	4	
Total Credits				4	

**Major:****Semester 5**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	ICT in Education	ED3L001	2-0-0	2	
2	Pedagogy (Major/Minor)	ED3L002	3-1-0	4	
3	Organometallic and Bioinorganic Chemistry	CY3L301	4-0-0	4	Core/Discipline Course
4	Quantum Chemistry and Molecular Spectroscopy	CY3L302	4-0-0	4	Core/Discipline Course
5	Organic Lab-II	CY3P301	0-0-3	2	Core/Discipline Course
6	Inorganic Lab- II	CY3P302	0-0-3	2	Core/Discipline Course
7	Pre-internship Practice (Demo lessons, Peer teaching)	ED3L003	0-0-0	2	
Total Credits				20	

**Major:****Semester 6**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Assessment and Evaluation	ED3L004	2-0-0	2	
2	Inclusive Education	ED3L005	2-0-0	2	
3	Pedagogy (Major and Minor)	ED3L006	3-1-0	4	
4	Mathematical & Quantitative Reasoning	ED3L007	2-0-0	2	
5	Medicinal Chemistry	CY3L303	4-0-0	4	Core/Discipline Course
6	Computational Chemistry	CY3L304	3-0-2	4	Core/Discipline Course
7	Seminar	CY3S301	0-0-3	2	Core/Discipline Course
8	School Observation (Field Practice)	ED3L008	0-0-0	2	
Total Credits				22	

**Semester-Wise Curriculum Structure for B.Sc.-B.Ed. (Major in Economics) Under ITEP**  
(Credit Structure: Discipline Major - 64, Minor - 20)

**Major:**

**Semester 1**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 1 (as per the 8th schedule of the Constitution of India): <b>Sanskrit</b>	HS1L005	3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L006	2-0-0	2	
3	Evolution of Indian Education	HS1L003	3-1-0	4	
4	Microeconomics I	ES1L001	3-1-0	4	Core/Discipline Course
5	Macroeconomics I	ES1L002	3-1-0	4	Core/Discipline Course
6	Art (Performing and Visual) & Creative Expressions	HS1L004	0-0-3	2	
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Microeconomics I	ES1L001	3-1-0	4	
2	Macroeconomics I	ES1L002	3-1-0	4	
Total Credits				8	

**Major:**

**Semester 2**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Language 2 (Other than L1): <b>English for Communication/Learning English</b>	HS1L001/ HS1L002	3-0-2/ 3-1-0	4	
2	Understanding India (Indian Ethos and Knowledge Systems)	HS1L007	2-0-0	2	
3	Teacher and Society	ED1L001	2-0-0	2	
4	Microeconomics II	ES1L003	3-1-0	4	Core/Discipline Course
5	Macroeconomics II	ES1L004	3-1-0	4	Core/Discipline Course
6	Mathematics for Economics	ES1L005	3-1-0	4	Core/Discipline Course
Total Credits				20	

**Major:**

**Semester 3**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Child Development and Educational Psychology	HS2L011	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L001	3-1-0	4	
3	Statistics for Economics	ES2L001	3-1-0	4	Core/Discipline Course
4	Public Economics	ES2L002	3-1-0	4	Core/Discipline Course
5	Development Economics	ES2L003	3-1-0	4	Core/Discipline Course
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Public Economics	ES2L002	3-1-0	4	
2	Development Economics	ES2L003	3-1-0	4	
Total Credits				8	

**Major: Semester 4**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Philosophical & Sociological Perspectives of Education -I	HS2L012	3-1-0	4	
2	Pedagogy (Major/Minor)	ED2L002	3-1-0	4	
3	International Economics	ES2L004	3-1-0	4	Core/Discipline Course
4	Indian Economy	ES2L005	3-1-0	4	Core/Discipline Course
5	Econometric Analysis	ES2L006	3-1-0	4	Core/Discipline Course
Total Credits				20	

**Minor:**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	International Economics	ES2L004	3-1-0	4	
Total Credits				4	

**Major: Semester 5**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	ICT in Education	ED3L001	2-0-0	2	
2	Pedagogy (Major/Minor)	ED3L002	3-1-0	4	
3	Financial Economics	ES3L001	3-1-0	4	Core/Discipline Course
4	Law and Economics	ES3L002	3-1-0	4	Core/Discipline Course
5	Environmental and Natural Resource Economics	ES3L003	3-1-0	4	Core/Discipline Course
6	Pre-internship Practice (Demo lessons, Peer teaching)	ED3L003	0-0-0	2	
Total Credits				20	

**Major: Semester 6**

SL No.	Subject Name	Sub Code	LTP	Credit	Remarks
1	Assessment and Evaluation	ED3L004	2-0-0	2	
2	Inclusive Education	ED3L005	2-0-0	2	
3	Pedagogy (Major and Minor)	ED3L006	3-1-0	4	
4	Mathematical & Quantitative Reasoning	ED3L007	2-0-0	2	
5	Labour Economics	ES3L004	3-0-2	4	Core/Discipline Course
6	Game Theory	ES3L005	3-0-2	4	Core/Discipline Course
7	School Observation (Field Practice)	ED3L008	0-0-0	2	
Total Credits				20	

**RULES FOR THE AWARD OF INSTITUTE MEDALS AND PRIZES**  
(Vide **Clause 18** of the Regulations)

**Eligibility Criteria:** A student is eligible for the award of any medals or prize if:

- (i) He/she has passed in all the prescribed subjects and cleared all other requirements, if any, obtaining a **CGPA** not lower **than 8.35** in the semester after which the Medal or Prize is to be awarded.
- (ii) He/she has not failed in any subject at any stage during his/her academic career till the time of the award.
- (iii) No disciplinary action has been taken against him/her for any offence at any time prior to the award.
- (iv) He/she has not been punished under examination malpractice and involved in violation of code of conduct at any stage of the course in the Institute/Hall of Residence/School /Gymkhana etc.

The medals awarded by the Institute are listed below. Specific rules that govern these awards have been mentioned against each. In the event of a tie between two or more students, their performance at the end of the immediately preceding semester will be taken into consideration for deciding the award. This criterion will be exclusively applied including using the All-India-Rank in the NCET till the tie is broken.

**INSTITUTE SILVER MEDAL:** The Institute silver medal is awarded to the outgoing B.Sc.-B.Ed. students who secures the highest **CGPA** at the end of the 8th semester for B.Sc.-B.Ed. degree among the graduating students of each branch of the B.Sc.-B.Ed. course.