

**Ordinances and Regulations for
Undergraduate and Integrated Dual-Degree
Programmes in Engineering and Pharmaceutics
&
Integrated M. Tech Degree Programmes in Applied
Sciences**



**(These Ordinances shall be subject to such amendments as may be made by the
Banaras Hindu University from time to time)**

Effective from Academic Session 2005-06

(Approved vide Executive Council Resolution No. 116 (Item 20) Dated 14.03.2007)

PART A

1. Preamble

Institute of Technology, Banaras Hindu University (IT, BHU), inherits the legacy of excellence and tradition of the erstwhile three colleges- Benares Engineering College (BENCO) established in 1919, College of Mining and Metallurgy (MINMET) established in 1923, and College of Technology (TECHNO) established in 1932 by Mahamana Pandit Madan Mohan Malaviyaji, the illustrious founder of the Banaras Hindu University and a great patriot and visionary. To provide a strong integrated educational base BENCO, MINMET and TECHNO were merged to form the Institute of Technology in 1969. Engineering accomplishments across the country and the globe stand eloquent testimony to the capabilities and excellence of the alumni of these colleges as well as of the Institute.

The undergraduate education in engineering and technology primarily aims at building on the knowledge gained by the students through the school/college curricula by imparting new knowledge through classroom instructions, training and other modes of teaching. It is expected that after completing the course, the student will acquire adequate theoretical and practical knowledge in his/her branch of engineering/technology. Further, he/she will be capable of applying the same for the solution of real life problems and strive to develop/upgrade it further through higher/continuing education to reach the frontiers of knowledge in his/her field of specialization.

The 5-year Integrated Dual Degree (IDD) programmes in Engineering and Pharmaceutics aim at the consolidation of the undergraduate programmes with inputs of Master's level specialized courses and one-year research component in the form of a dissertation. Thus the IDD programmes are fast track programmes through which a student can get both B. Tech./B. Pharm. and M. Tech./M. Pharm. degrees in Engineering or Pharmaceutics in 5 years instead of 6 years required for the existing 4-year B. Tech./B. Pharm. and 2-year M. Tech./M. Pharm. Programmes.

Similarly, the 5-year Integrated M.Tech. Degree (IMD) programmes in applied sciences aim at blending the conventional 3-year degree programmes in basic sciences with two-year postgraduate programmes in the concerned science (Chemistry/Mathematics/Physics) with emphasis on the applied aspects in the respective areas by incorporating courses on basic engineering sciences e.g. workshop, drawing, mechanics, practical training, etc. Thus, these are the programmes through which a student can get M.Tech. degree in an appropriate branch of Applied Science (Applied Physics, Applied Chemistry or Applied Mathematics) in place of conventional B. Sc., M. Sc. and M. Phil degrees.

The Undergraduate, Integrated Dual-Degree and Integrated Master's Degree programmes in Engineering and Pharmaceutics and Applied Sciences, respectively lay emphasis on academic and extracurricular components designed for the integrated development of engineering/technical professionals possessing human values and ethics. Almost all students after graduation start their career in organizations where cooperative efforts and teamwork are a must for the success in their career progress. Ethics, human values and discipline are of paramount importance for meaningful cooperation and successful team efforts. The 4-year Undergraduate Degree, 5-year Integrated Dual Degree and Integrated Master's Degree programmes, all lay equal emphasis on these extra-curricular components.

The rapidly increasing volume of knowledge in different fields requires continuous updating of the course contents of various subjects in a given area of knowledge. The curriculum is,

therefore, only broadly defined to make it possible for the teacher to update the contents by incorporating latest developments. In addition, the Faculty/Institute undertakes periodic review of the curriculum structure to prune the obsolete and time-worn contents and incorporate new concepts, which may become necessary in view of the changes taking place in the engineering profession and manufacturing processes. Cross-disciplinary exchange of knowledge is essential for furthering the frontiers of a given branch in new areas. In view of this the undergraduate curriculum in all branches of engineering and applied sciences encourages students to take-up cross-discipline courses. In the undergraduate programme in engineering, apart from inputs of social sciences and management, environment and ecology, and materials science have been introduced across the branches. The curriculum at the undergraduate level has been so structured that it offers enough flexibility to the students to tailor their learning process as per their personal inclinations and the desired career objectives.

The curriculum in a given branch at the undergraduate level includes academic programmes involving ingredients of classroom teaching, laboratory practice, training, seminar and project. These ingredients are specified in terms of courses with a given code specifying the subject(s) to be taught under it. Every course has a credit commensurate with the workload it involves. The students are continuously evaluated during the conduct of a course and are awarded a letter grade on the basis of their performance. The academic year is divided into two semesters and in each semester the students have to register in a branch of study for a number of courses. When a student fulfill all the criteria for a given curriculum, he/she becomes eligible for the award of the degree.

The Integrated Dual Degree programme, while retaining the character of the undergraduate programme and flexibilities of elective courses in engineering/technology as well as courses in science, humanities and engineering sciences, enriches it with specialized subjects of the Master's programme together with the dissertation work. The Integrated Dual Degree programme lays emphasis on excellence and encourages the students in the top talent pool of the country, selected through JEE, to opt for both Bachelor's and Master's education in engineering/technology at one stretch. Similarly, the Integrated Master's Degree programmes in Applied Sciences aim at emphasizing the application of the basics of fundamental sciences towards the solution of specific real world problems. This will accelerate the capacity building exercise of the country and encourage top students to opt for research and development as a career.

A limited number of students of Undergraduate Degree, Integrated Dual Degree and Integrated Master's Degree programme are also offered scholarships, stipends, fee-waivers, etc. at the undergraduate level besides Institute/University/Governmental assistantship/scholarships during fifth year of the programmes.

A student earning a minimum number of credits specified for the programme and satisfying all the requirements becomes eligible for the award of the B.Tech./B.Pharm. (parent discipline) degree after completion of the 4-year Undergraduate programme or B.Tech./B.Pharm. (parent discipline) degree and M.Tech./M.Pharm. (parent discipline with or without specialization) degree or only M.Tech. (appropriate branch of Applied Science) degree after completion of five years of Integrated Dual Degree/Integrated Master's Degree programmes.

The Ordinances as embodied here are for specifying the provisions required for the purpose of smooth functioning of Undergraduate, Integrated Dual Degree and Integrated Master's Degree academic programmes. The clauses of Regulations have been framed to lay down the procedures for implementation and clarify other details of the provisions enshrined in the Ordinances.

PART B

ORDINANCES FOR THE UNDERGRADUATE (B.TECH./B.PHARM.), INTEGRATED DUAL-DEGREE (IDD) (B.TECH./M.TECH. OR B.PHARM./M.PHARM.) AND INTEGRATED MASTER'S DEGREE (IMD) PROGRAMMES

1. Short Title and Commencement

- (i) These ordinances shall be called the Ordinances for the Undergraduate Degree, Integrated Dual-Degree and Integrated Master's Degree Programmes of the Institute of Technology, BHU
- (ii) These ordinances shall come into force with effect from such date as the Faculty/ Academic Council/ Executive Council may decide on this behalf.

2. Definitions

Unless the context requires otherwise,

- (i) "**Academic Council**" shall mean the Academic Council of the Banaras Hindu University;
- (ii) "**Applicant**" shall mean an individual who applies for admission to any Undergraduate Degree (UGD) or Integrated Dual Degree (IDD) or Integrated Master's Degree (IMD) programme of the Institute;
- (iii) "**Academic Coordination Committee**" shall mean the committee appointed by the Director for looking into academic schedule, etc. of all academic programmes;
- (iv) "**Admit Card**" shall mean the official permission card issued to the examinee by the Controller of Examinations;
- (v) "**Advisor, SC/ST**" shall mean the faculty member responsible for advising SC/ST students in academic matters;
- (vi) "**AICTE**" shall mean the All India Council for Technical Education;
- (vii) "**Audit Course**" shall mean a course in which only pass or fail grades will be awarded;
- (viii) "**BOE**" shall mean the Board of Examiners of the Department/School;
- (ix) "**BOS**" shall mean the Board for Undergraduate and Post graduate Studies of the Department/School;
- (x) "**CGPA**" shall mean the Cumulative Grade Point Average of a student;
- (xi) "**Coordination Committee**" shall mean the committee of the faculty members involved in teaching of a course;
- (xii) "**Course**" shall mean a curricular component identified by a designated code number and a title;
- (xiii) "**Course Convener**" shall mean a faculty member who shall have full responsibility for coordinating the work of all faculty member(s) involved in teaching of a course, including examinations and the award of grades;
- (xiv) "**Credit**" shall mean the numerical weightage given to a course of study;

- (xv) **"Dean"** shall mean the Dean of the Faculty of Engineering & Technology;
- (xvi) **"Degree"** shall mean the Bachelor's degree viz. B.Tech./B.Pharm. and Post graduate degree viz. M.Tech./M.Pharm. and such other degrees of the Institute as may be approved by the Academic Council/Executive Council;
- (xvii) **"DGPA"** shall mean the Degree Grade Point average;
- (xviii) **"Executive Council"** shall mean the Executive Council of the Banaras Hindu University;
- (xix) **"External Student"** shall mean a student who is registered for a degree in a recognized Institution / University in India or abroad and is officially sponsored by his parent institute/university to avail laboratory and other academic facilities or for attending a formal set of courses;
- (xx) **"Faculty Advisor"** shall mean a teacher nominated by the Department/School to advise a student on the courses to be taken by him/her and other matters related to his/her academic programme;
- (xxi) **"FET"** stands for the Faculty of Engineering and Technology;
- (xxii) **"Grade"** shall mean the prescribed alphabetical or numerical grade awarded to a student based on his/her performance in various examinations;
- (xxiii) **"Grade Card"** shall mean the printed record of student's performance awarded to him/her;
- (xxiv) **"Grade Point"** means point given to a grade on 10 point scale.
- (xxv) **"Institute"** shall mean the Institute of Technology, BHU;
- (xxvi) **"Integrated Dual-Degree" or "IDD"** shall mean the Integrated Dual Degree programme, namely B.Tech./B.Pharm. (parent discipline) and M.Tech./M.Pharm. (parent discipline with or without specialization) of the Institute;
- (xxvii) **"Integrated Master's Degree" or "IMD"** shall mean the Integrated Master's Degree, namely M. Tech. (in any one of the three applied sciences) of the Institute;
- (xxviii) **"JEE"** shall mean the Joint Entrance Examination for admission to the IITs, Institute of Technology, BHU and ISM Dhanbad;
- (xxix) **"MHRD"** shall mean the Ministry of Human Resource Development;
- (xxx) **"NCC"** shall mean the National Cadet Corps;
- (xxxi) **"NSS"** shall mean the National Social Service;
- (xxxii) **"Part"** shall mean a given year of the UG /IDD/IMD/PG Programme;
- (xxxiii) **"PC"** shall mean a physically challenged candidates as defined by Government of India/a competent authority/Executive Council.
- (xxxiv) **"PG"** shall mean Post Graduate;
- (xxxv) **"PGDC"** shall mean the Postgraduate Degree Committee of the Department/School;
- (xxxvi) **"Rank"** shall mean the order of merit of a student at the end of a given programme in which he/she has studied and passed all examinations as specified;

- (xxxvii) **“Registration”** shall mean the enrolment of a student in a semester/course after completion of all necessary formalities;
- (xxxviii) **"SC/ST"** shall mean the Scheduled Castes and Scheduled Tribes as notified by the Government of India from time to time;
- (xxxix) **"Scheme of Teaching and Examination"** shall mean the scheme of teaching and examination for a branch of study as approved by the BOS/Faculty/Academic Council;
- (xl) **"SGPA"** shall mean the Semester Grade Point Average;
- (xli) **"Student"** shall mean a student registered for an UG degree or IDD or IMD programme for full-time study leading to the Bachelor's degree or the Integrated Dual Bachelor's and Master's degrees or the Integrated Master's Degree as the case may be;
- (xlii) **“Semester”** shall mean the period of academic session or “Part” during which a student will be taught and examined in the courses specified for that period;
- (xliii) **“Student Advisor”** shall mean the faculty member responsible for looking into various non-curricular issues of students;
- (xliv) **"UG"** shall mean Undergraduate;
- (xlv) **“UGC”** shall mean the University Grants Commission;
- (xlvi) **"UGDC"** shall mean the Undergraduate Degree Committee of the Department/School;
- (xlvii) **“University”** shall mean the Banaras Hindu University;
- (xlviii) **“YGPA”** shall mean the Yearly Grade Point Average;

3. Ordinances

- 3.1 The Institute shall offer such UG degree, IDD/IMD programmes and of such minimum duration as the Executive Council may approve on the recommendation of the FET/Academic Council either on its own or on the initiative of a Department/School, and/or on the direction of the Government of India/UGC/AICTE/FET.
- 3.2 The procedure for starting a new programme, temporarily suspending a programme or phasing out a programme shall be such as may be laid down in the Regulations.
- 3.3 The qualifications for admission to UG degree, IDD and IMD programmes shall be such as may be laid down in the Regulations.
- 3.4 A UG degree or IDD or IMD student shall be required to complete all the requirements for the award of the Bachelor's Degree or the Integrated Dual Degrees, viz. B.Tech./B.Pharm. in parent discipline and M.Tech./M.Pharm. in parent discipline with or without a specialization, or M.Tech. in Applied Sciences, as specified in the Ordinances/Regulations.
- 3.5 The date of initial registration for the UG degree or IDD or IMD programme shall normally be the date on which the student formally registers for the first time. This date shall be construed as the date of joining the programme for all intents and purposes.
- 3.6 A student shall be required normally to attend every lecture, tutorial and practical class. However, for late registration, sickness or other such exigencies, absence may be allowed as provided for in the Ordinances/Regulations of the Institute/University.
- 3.7 An UG degree or IDD or IMD student may be granted such scholarship/ assistantship/stipend, etc. and awarded such fee-waiver, prizes and medals as may be specified in the Regulations in accordance with the directions of the Government of India/UGC/AICTE/FET and/or the decision of the Executive Council/Academic Council/Institute from time to time.
- 3.8 The procedure for the admission of a student to an UG degree or IDD or IMD programme shall be such as may be specified in the Regulations. The external students may also be allowed access to the academic programmes in the manner provided for under the Regulations.
- 3.9 In case all the reserved seats for SC/ST category are not filled even with relaxed admission norms through JEE counselling, the students in this category who satisfy some minimum norms specified for this purpose, shall be offered admission to one year Preparatory Programme as per JEE norms. On successful completion of Preparatory Programme, these students shall be offered direct admission against the unfilled quota of SC/ST seats as provided for in the Ordinances/Regulations.
- 3.10 The procedure for the withdrawal from a programme, rejoining the programme, the award of grades and the SGPA/YGPA/CGPA/ DGPA, the examination and all such matters as may be connected with the running of an UG degree or IDD or IMD programme shall be such as may be specified in the Regulations.
- 3.11 The award of the UG degree or the Dual degrees or Integrated Master's degree to an eligible candidate shall be made at the end of the respective programme in accordance with the procedures laid down in the Regulations.
- 3.12 A student admitted to the UG degree or IDD or IMD programme shall abide by the "Standing Orders for Students" issued by the Institute/University from time to time. These standing orders shall deal with the discipline of the students in the Hostels,

Departments/ Schools, the Institute/University premises and outside. The Standing Orders may also deal with such other matters as are considered necessary for the general conduct of the students, and co-curricular and extra-curricular activities. These Standing Orders shall be approved by the Vice Chancellor/Director on the recommendation of the Dean of Students Welfare/Faculty/Academic Council.

- 3.13 Notwithstanding anything contained in the above Ordinances, no Regulation shall be made in contravention of the decision of the Academic/Executive Council and/or the directions of the Government of India/UGC/AICTE in regard to the duration of the UG degree or IDD or IMD programme, the amount and number of scholarships/ assistantships and the number of studentships and the procedure of award thereof. The Regulations for the UG or IDD or IMD programme shall be framed by the FET and approved by the Academic Council/Executive Council.
- 3.14 In special circumstances, the Chairperson of the Executive Council may, on behalf of the Council, approve amendment, modification, insertion or deletion of an Ordinance(s)/a Regulation(s), which in his/her opinion is necessary or expedient for the smooth running of a programme.

PART C

Regulations for the 4-Year Undergraduate Degree (UGD)/5-Year Integrated Dual Degree (IDD)/ 5-Year Integrated Master's Degree (IMD) Programmes

1. Short Title and Commencement

- 1.1 These regulations shall be called the Regulations for the UG Degree/IDD or IMD programmes of the Institute.
- 1.2 These regulations shall come into force on such date as the Academic Council/Executive Council/Vice-Chancellor may approve on this behalf.

2. Undergraduate Degree/Integrated Dual Degree/Integrated Master's Degree Programmes

- 2.1 The Institute may offer such UG degree programmes leading to Bachelor's degree in Technology/Pharmaceutics i.e. B.Tech./B.Pharm., IDD programmes leading to Bachelor's degree in Technology/Pharmaceutics, i.e. B.Tech./B.Pharm. in a parent discipline and Master's degree in Technology/Pharmaceutics, i.e. M.Tech./M.Pharm. in the parent discipline with or without specialization, and IMD programmes leading to M.Tech. degree in Applied Sciences, as may be approved by the FET/Academic Council/Executive Council.
- 2.2 The list of currently run UG degree/ IDD or IMD programmes and their respective broad course structures are given in *Annexures-1 & 2 and Annexures-3 & 4*, respectively. The structures and programmes may be amended/modified in accordance with the decisions of the FET/Academic Council/ Executive Council.
- 2.3 The duration of UG degree programmes leading to B.Tech./B.Pharm. degrees, shall be normally four years and the maximum duration shall be seven years from the date of initial registration. The duration of an IDD programme leading to dual-degrees of B.Tech./B.Pharm. and M.Tech./M.Pharm. or IMD programme leading to M.Tech. degree shall be normally five years and the maximum duration shall be eight years from the date of initial registration.

The maximum total duration of the programme shall include the period of withdrawal, absence and different kinds of leave permissible to a student but it shall exclude the period of rustication. The duration for the UG degree or IDD or IMD programmes may be altered in accordance with the decision of the MHRD/UGC/AICTE/FET/Academic Council/ Executive Council. All students shall be required to complete the Part-I(First Year) of the programme to which they have been admitted within a maximum period of 2 years, failing which they shall not be allowed to continue in the programme.

3. Academic Calendar

The Director of the Institute/Dean, FET in consultation with the Chairman, Academic Coordination Committee shall finalize the Academic Calendar in accordance with the policy of the University/Institute and shall get it approved by the competent body (IT Policy Planning Committee/University). This calendar should be strictly followed in implementing and running all the academic programmes.

4. Semester System

- 4.1 The academic session in the Institute shall begin normally in July every year and end by the second week of May of the following year. Each academic session shall be divided into 2 semesters- Autumn (Odd) Semester and Spring (Even) Semester with winter break and summer vacation. The Autumn (Odd) Semester shall be during July/August to

November/December and Spring (Even) Semester during December/January to April/May every year. There shall normally be 90 teaching days in a semester.

- 4.2 The general structure of the programmes and the distribution of credits for each semester shall be as prescribed and given in course structure as prescribed in Annexures 3 and 4. A number of courses shall be offered in each Semester. Each course shall have a certain number of credits assigned to it depending upon the academic load of the course assessed on the basis of weekly contact hours of lecture, tutorial and laboratory classes, assignments, or field study and/or self-study.
- 4.3 The students of Part I and Part II of the UGD/ IDD/ IMD Programmes who have registered but failed to pass in the previous semesters may be allowed to register themselves for such courses in the Summer Semester during summer vacation following Part I and Part II of the Programme, on payment of necessary fees on a specified date. The Summer Semester is a compressed semester where all the regulations for the normal semester shall generally apply but the registration shall be limited to only three courses having total credits not exceeding 12.
- 4.4 The concerned Department/School shall offer the required summer courses, as intimated by the Academic Section before the beginning of the Summer Semester. A course will be offered in the Summer Semester provided that there are a minimum of five students registering for a course.
- 4.5 All Part V students of IDD/IMD programmes shall be carrying out their dissertation work during Summer Semester also.

5. Admission

5.1 Regular Students

- (a) Admission to the Undergraduate Degree/Integrated Dual Degree/Integrated Master's Degree programmes shall be made through the Joint Entrance Examination (JEE);
- (b) Reservation norms for SC/ST/PC candidates, as specified by the Government of India/AICTE/UGC and accepted by JEE Council, shall be followed for admission to Part-I(First Year) in all branches of programmes;
No lateral entry of a student shall be permitted at any stage in any of the programmes;
- (c) Foreign nationals either residing in India or abroad or Indian nationals residing abroad may be admitted to UG degree/IDD/IMD programme according to the policy guidelines laid down by the Government of India/JEE Council/Executive Council from time to time.
- (d) The SC/ST candidates who do not merit admission directly to Part-I(First Year) of an UG degree/IDD/IMD programme on the basis of their JEE Rank shall be admitted to a one year Preparatory Programme as per JEE guidelines. A candidate passing the Preparatory Programme shall be admitted to Part-I(First Year) of an UG degree/IDD/IMD programme on the basis of his/her merit in the Preparatory Programme and number of seats remaining vacant in SC and ST category, respectively in the previous year against which he/she was admitted to the Preparatory Programme. A student failing in the Preparatory Programme shall not be permitted to continue his/her studies.

5.2 External Student

A student registered for a degree in a recognized Institute/University in India or abroad may be allowed to attend classes and laboratories as an External Student, if sponsored officially by the Institute/University where he/she is studying on payment of such fee(s)

as may be decided by the Institute/University. However, the maximum period for which an external student will be allowed to avail the facility, shall not exceed six months.

6. Enrolment in the University

Every student admitted to the UG Degree/IDD/IMD programmes shall apply on a prescribed form through his/her respective Head of the Department/Coordinator of the School/IT-Directorate to the Controller of Examinations for enrolment together with all necessary documents such as Migration Certificate (in original)/Transfer Certificate (in original), as the case may be, and attested copies of other required academic certificates. The Controller of Examinations will provide him/her an Enrolment Number after completing all necessary formalities. The Enrolment Number will be the permanent reference number in all records of the Institute/University pertaining to the concerned student.

7. Allotment of an UG Degree/IDD/IMD Programme and its Change

- 7.1 The allotment of an UG Degree/IDD/IMD programme to a student shall be made at the time of counseling on the basis of his/her merit in JEE according to his/her preference and the availability of seats.
- 7.2 A student enrolled in an UG Degree/IDD/IMD programme through JEE, shall be eligible for change of branch/programme at the end of Part-I (First Year) provided he/she has scored YGPA ≥ 8.0 & satisfies the following criteria:
- 7.3 While making the change of branch of a student, the number of students in a class should not fall below the existing number of students by more than 10% and should not exceed the sanctioned number of students by more than 10%. For this purpose the existing number of students refers to the total number of students in the class of a given branch registered in the beginning of the third semester excluding the failures and re-admission cases.
- 7.4 The change of branch of UGD, IDD or IMD students will be within their respective programmes only.
- 7.5 A student admitted to UGD/IDD programmes in Pharmaceutics shall not be permitted change of branch.
- 7.6 A student admitted through Preparatory Course shall not be permitted change of branch.

8. Registration

- 8.1 Every student admitted/promoted to the Part-I(First Year), Part-II(Second Year), Part-III(Third Year), Part-IV(Fourth Year) and Part-V(Fifth Year) of the academic programmes shall get registered at the beginning of each semester in the Department/School by completing the necessary formalities as specified by the Institute.
- 8.2 A student shall be admitted to Part-II(Second Year), Part-III(Third Year), Part-IV(Fourth Year) and Part-V(Fifth Year for IDD/IMD programmes) of a programme only by promotion after successfully passing the examinations of the previous Part of the concerned programme.
- 8.3 Notwithstanding the rules for promotion as per Clause 28 a student shall not be permitted to register himself/herself in an Even (Spring) Semester unless he/she has been a registered student of the immediate earlier Odd(Autumn) Semester and has pursued the course of that semester as a regular student.
- 8.4 In each semester, a last date shall be fixed and notified in the beginning of the semester after which admissions/re-admissions/promotion/registration shall not be ordinarily made.

- 8.5 A student who has been registered in a semester of any Part(Year) and has pursued in that semester, the regular courses of lectures, tutorials, sessionals, practicals, etc. and after satisfying such other conditions as are laid down in these Regulations, shall be eligible to appear in tests/examinations on such dates as may be fixed by the University/Institute/Department/School.
- 8.6 Registration of courses to be taken in a particular Semester, shall be done according to a specified schedule on payment of necessary fees. In-absentia registration may be allowed only in rare cases at the discretion of the Director of the Institute/Dean, FET in case of illness or any other exigencies.
- 8.7 Those students who join the Part-I(First Year) of the UG degree or the IDD or IMD programme shall complete the registration procedure on a specified registration date prior to the commencement of their classes.
- 8.8 Under special circumstances, the students may be allowed late registration by the Director till a specified date, by paying a late fee fixed by the Institute, along with other necessary fees.

9. Re-admission:

- 9.1 A student of Part-I(First Year) of a programme found not eligible to appear in the End-Semester Examination of Autumn (Odd) or Spring (Even) Semester of the programme due to shortage of attendance (less than 70% but more than 30%) or those who fail in either Autumn (Odd) or in Spring (Even) Semester shall be permitted to take re-admission to Part-I(First Year) of the same programme in the following academic year. Students of Part-I(First Year) securing less than 30% attendance shall not be permitted to take re-admission.
- 9.2 Students of Part-II to Part-V of all programmes, disallowed to appear in the End-Semester Examination due to shortage of attendance (< 70%) or those who fail in either Autumn (Odd) or in Spring (Even) Semester shall be permitted to take re-admission in the following academic year in the appropriate semester.
- 9.3 The students who are re-admitted in Part I, Part II, Part III, Part IV and Part V of the programme shall register in respective semesters. If a student fails in not more than three subjects (theory and practical) of Odd and Even Semesters, he/ she will register only for those subjects in which he/ she has failed. If the number of failed subjects is more than three he/ she will register for all the theory and practical subjects
- 9.4 In each semester, a last date shall be fixed and notified by the Institute in the beginning of the semester after which admission/re-admission/registration of student shall not be ordinarily made without the permission of the Director of the Institute/Dean, FET.

10. Fees

- 10.1 The fees payable by a student shall be such as may be fixed by the University/Institute from time to time subject to any directions from the Government of India/UGC thereon. The fees payable at the time of admission/initial registration, registration during subsequent semesters and at the time of examination shall be decided by the University/Institute and notified from time to time. The current fee structure and payment schedules are given in *Annexure-5* of these Regulations.
- 10.2 External students shall pay the normal fees only during their course work and residency period within the Institute. In addition, they shall also pay all other annual fees/examination fee payable by a regular student.

11. Refund of Fees

- 11.1 Fees once paid to the Institute/University shall not be refunded except the caution money, which shall be paid back to the student within one year from the date of award of the degree or cancellation of registration on any ground, subject to adjustment of any dues payable by him/her.
- 11.2 The fees and other charges deposited by a candidate seeking admission to an academic programme will be refunded if the student does not join the programme and leaves the Institute provided he applies for refund on or before the date of registration. The Institute shall decide the amount to be refunded but no refund of fees will be permissible to students who have registered for the programme and left thereafter. In such cases only the caution money will be refunded at the end of the semester. First year students are not entitled to refund till they appear in Ist and IInd Semester Examinations.
- 11.3 A student who fails to pass or who is unable to present himself/herself for any examination on any account shall not, except in the cases covered by the following Clauses, be entitled to a refund or adjustment of the examination fee to the next ensuing examination. The examination fee paid by a candidate will be refundable only when his/her Examination Form is rejected by the Institute/University/Controller of Examinations,

12. Attendance, Absence and Leave

Students admitted/registered in a semester shall pursue the regular course of lectures, tutorials, sessional work, field work, practicals, drawing, design, seminar project, dissertation etc. as well as satisfy all other relevant conditions laid down in these Regulations in order to be eligible to appear in the tests/examinations on such dates as may be specified by the Institute.

- 12.1 All the students of Institute are expected to be present in every lecture, tutorial, practical or drawing classes, seminars, etc. scheduled for them.
- 12.2 The Director of the Institute/Dean, FET may condone shortage of percentage in attendance not exceeding 30% due to one or more of the following reasons, involving absence from the classes:-
- (a) Participation in NCC/NSS Camps, duly supported by a certificate from the OC, NCC/Incharge, NSS.
 - (b) Participation in University or Institute Team(s)/Games or Inter-state or Inter-University tournament(s) duly supported by a certificate from the Vice-President of the University Sports Board or the President of the IT Gymkhana, as the case may be.
 - (c) Participation in Educational Excursions conducted on working days certified by the Director/Dean, FET or the Head of the Department/Coordinator of the School. These excursions shall not include those organized for the class as a whole. No credit shall be given for excursions conducted on holidays.
 - (d) Participation in any of the co-curricular activities organized by the Institute/Department/School, duly certified by the competent authority;
 - (e) University deputation for Youth Festival certified by the Director of the Institute/Dean, FET.
 - (f) Prolonged illness duly certified by the Chief Medical Officer or the Superintendent, SS Hospital, Banaras Hindu University.

(g) Any other cogent reason up to the satisfaction of the Head of the Department/ Coordinator of Schools/ Dean, FET/ Director, Institute of Technology

- 12.3 A UG degree/IDD/IMD programme student must have a minimum attendance of seventy percent (70%) of the total number of classes including lectures, tutorials and practicals, held in a semester and a certificate of good conduct from the Director/Dean, FET/Head of the Department/Coordinator of the School in order to be eligible to appear at the End-Semester Examination for that semester.
- 12.4 During IX and X Semesters when a student is carrying out dissertation work and is drawing scholarship, he/she shall have to sign on all working days of the Institute in the attendance register to be kept in the concerned Department/School. The attendance of such students shall also be recorded with the supervisor for morning and evening sessions considering the dissertation as a practical subject.
- 12.5 A student should meet the above attendance requirement irrespective of the number of days, he/she has been on medical and/or other leave for any reason whatsoever. Attendance of the students shall be monitored and displayed during a semester as per the guidelines approved by the Institute/ University.
- 12.6 Names of the UG Degree /IDD/IMD programme students who have remained absent with or without leave, for more than 30% of the actual classes held in a semester will be intimated by the Course Coordinator by the last teaching day, to the First Year Class Coordinator/Head of the Department/Coordinator of School, as the case may be, who will consolidate the list for all such students for all the courses of a given semester of a programme and display it on the notice board of the Department/School. The list of such students shall also be forwarded to the Director of the Institute/Dean, FET. These students shall not be allowed to appear in the End-Semester Examination of that semester irrespective of their performance in Periodical Tests, etc.

13. Leave for Summer Semester and Part-V(Fifth Year)

- 13.1 Subject to his/her fulfilling the attendance requirements as detailed in the Regulation 12 above, a student of IDD/IMD programme will be entitled for 30 days leave (including leave on medical grounds) during Summer Semester and Fifth Year of the programme. He/She will not be entitled to mid-semester breaks, and summer and winter vacations.
- 13.2 The leave will be subject to approval of the concerned Head of the Department/Coordinator of School.
- 13.3 The Department/School concerned shall maintain a proper leave account of each student.
- 13.4 A student may also avail 10 days duty leave for attending seminar/ symposium/ conference and for any other work related to Project/Dissertation during Summer and X Semesters only.

14 Rustication/ Suspension / Withdrawal from a Semester/Part

A student suspended or debarred from attending the classes due to any reason, whatsoever, or having withdrawn from a semester/year on medical grounds or for any other cogent reason, shall have to seek re-admission in the appropriate semester of the concerned Part (Year) in the next academic session as a regular student. Such students shall have to meet the requirement of 70% attendance in each course in a semester and shall have to complete the UG degree/IDD/IMD programme within its maximum time limit of seven or eight years as specified in the Regulations (period of rustication excluded).

15. Termination of Enrolment

- 15.1 If a student registered in Part I of the UG degree/IDD/IMD programme is continuously absent from the classes for more than four weeks without informing the Course Coordinators, the Coordinator shall immediately bring it to the notice of Part-I (First Year) Class Coordinator/Head of the concerned Department/Coordinator of the concerned School as the case may be, for informing the Academic Section of the Institute of Technology. The names of such students shall be removed from the Institute rolls and such absence during first year shall render the student ineligible for readmission.
- 15.2 All students shall have to complete the UG degree/IDD/IMD programme within the stipulated period of 7 or 8 years as the case may be. The maximum total duration of the programme shall include the period of withdrawal, absence and different kinds of leave permissible to a student but it shall exclude the period of rustication. The communication regarding termination of enrolment shall be issued by the Academic Section of the Institute/University within fifteen days from the date of declaration of results;
- 15.3 The enrolment of a student may be terminated on disciplinary grounds, in accordance with the Standing Orders for Students;
- 15.4 A student who do not register within stipulated period shall be issued a show cause notice immediately after the last date for subject registration as to why his/her name be not struck off the rolls of the Institute and the name will be struck off with in a period of one week if the reply is not found satisfactory.
- 15.5 A student whose enrolment has been terminated, may appeal to the Director/Vice-chancellor for reconsideration within fifteen days from the date of issuance of the communication of termination and the appeal will be disposed off within fifteen days. If the appeal is allowed, his/her registration and enrolment shall be restored.

16. Academic Performance Monitoring

- 16.1 A student shall be put on academic probation by the Dean, FET, at the end of each semester for monitoring his/her academic progress under one or more of the following conditions:
- (a) His/Her YGPA becomes 4.0 or less
 - (b) His/Her SGPA is below that of the last semester by two points or more
- 16.2 The academic progress of all such students, who are put on academic probation, shall be monitored by a committee appointed for this purpose by the Head of the Department/Coordinator of the School concerned.

17. Courses of Special Nature

The UG degree/IDD/IMD programme may contain the following courses of special nature in different curricula:

17.1 NCC/NSS/Games & Sports

Every student in the Part I shall register for participation in the NCC/ NSS/ Games & Sports for an overall development of his/ her personality. Students shall be admitted to NCC/ NSS/ Games & Sports on the basis of their preference and by virtue of their aptitude and abilities as decided by a committee constituted by the Dean, FET. The student shall be continually evaluated for his/her participation and awarded grades based on their performance.. There shall be no credit assigned for such courses. Attendance

regulations as for the theory courses shall apply. This requirement shall be completed in the first year. If, however, a student is not able to complete this requirement in the Part I, he/she shall complete it by the end of the Part II failing which he/she shall not be allowed to register in the fifth semester.

17.2 Independent Study

In addition to the prescribed courses of studies, a curriculum may contain a course on independent study as a Departmental Elective (over and above prescribed ones), which may be offered in any semester during the Part II and Part III of the programme. It may involve any of the following studies: (i) in-depth study and critical review of a specified topic, (ii) specialized laboratory work/experimental project feasibility studies, (iii) work on a research project, and (iv) software development of a specialized nature. A student having YGPA of 8.0 or more in his/ her previous Part (Year) examination may register for this course, with the prior approval of the concerned Heads of the Department/Coordinators of the School /Dean, FET during his/her enrolment for the UG degree/IDD/IMD programme. A certificate to this effect shall be issued by the Head of the Department/Coordinator of the School.

17.3 Project

Every student of a UG degree programme shall have to work on a project under the supervision of a faculty member assigned by the UGDC as per the curriculum.

Every student of IDD/ IMD Programmes shall have to work on a UG Project of 4 credits under the supervision of a faculty member assigned by the UGDC during the VII Semester of the programme.

Every student of an IDD/IMD programme shall have to work on a PG Project of 4 credits under the supervision of a faculty member assigned by the PGDC during VIII Semester of the Programme. The project topic shall be assigned during the Autumn (Odd) Semester of the Part-IV(Fourth Year) of the programme and shall be evaluated at the end of the VIII Semester. This may lead to the dissertation work in the following semester.

17.4 Practical Training

Every student of a programme shall have to undergo Industrial/Field Training for 6 weeks, generally carried out during the summer vacation following the Spring (Even) Semester of Part III. The evaluation of this course will be carried out in the Autumn (Odd) Semester of Part IV.

17.5 Educational Tour

A curriculum may contain a component of Departmental/School's Core Course on Educational Tour for visit to industrial units/R&D Organization – as and when organized by the Department/School during semester break. Evaluation of this course shall be done through the submission of tour report and seminar/viva-voce.

17.6 Seminar/ Group Discussion and Comprehensive Viva-Voce

The curriculum shall contain a component of Departmental/School's Core Course on Seminar/ Group Discussion and on contemporary issues of technological importance and Comprehensive Viva-Voce to be offered in the Part IV of the programme.

17.7 Dissertation

- (a) Every student of an IDD/IMD programme shall have to work on a dissertation. The dissertation topic shall be allotted to a student at the end of the Autumn (Odd) semester examination of Part IV, following a procedure decided by the Head of the Department/Coordinator of the School and concerned PGDC. The dissertation work shall involve in-depth study and critical review of the topic and the creation of new knowledge in the area either through development of new techniques, instruments, experimental facility and new experimental findings and/or theoretical and fundamental insight or by, re-interpretation of the existing facts to propound a new theory.
- (b) The topic once decided shall remain unchanged for IX and X Semesters, in the case of IDD/IMD programme. However, the PGDC of the Department/School may permit a change or a minor modification in the topic, if considered necessary.
- (c) A student of IDD/IMD programmes may pursue a part of his/her dissertation work at a reputed Research & Development/Industrial Organization of standing to be referred to as External Centre under the joint supervision of the supervisor(s) from the Department/School to be designated as internal supervisor(s) and the supervisor(s) from the External Centre, to be designated as external supervisor(s). However, such joint supervision shall be allowed only with the permission of the PGDC on the recommendation of the internal supervisor(s) and the consent of external supervisor(s). Such students may work at external centres during Summer and X Semester only for a duration of not more three months. He/She shall be awarded usual attendance for the period of his/her permitted absence provided he/she produces a certificate from the external centre for having worked there.
- (d) A student who does a part of his/her dissertation work at an External Centre shall be required to submit a progress report on the work carried out by him/her as well as a certificate regarding regular attendance at the External Centre duly approved by the external supervisor(s) as well as by the internal supervisor(s).

18. Audit Course

A student may be allowed to register for audit of elective courses to the extent of 8 equivalent credits out of which a maximum of four credits may be from outside the department/ school.

A student registered for an audit course may be awarded grades but there shall be no credit assigned for such courses. The performance of the student in all such courses shall be mentioned in his/ her grade card.

19. Course Code

Each course offered by the Institute/Department/School shall be identified by a course code, normally consisting of a string of six alphanumeric characters followed by a course title. The first two characters in a course code shall be capital letters identifying the Department/School offering the course or a course common to all branches (*Annexure-6*). The next four characters shall be numerical digits: the first digit normally specifying the Part(Year) of study and the next digit specifying theory or practical subject and the Autumn (Odd)/Spring (Even) semester in which the course(s) shall be offered, and the last two digits shall specify the course number. Normally, odd numbers in the course code shall indicate that the course shall be offered in the Autumn (Odd) Semester and the even numbers shall indicate that the course shall be offered in the Spring (Even) Semester of the year. Thus for all theory papers the second digit shall be either 1 (for Autumn (Odd) Semester) or 2 (for Spring (Even) Semester) and for practical subjects it shall be 3 (for

Autumn (Odd) Semester) or 4 (for Spring (Even) Semester). The first numerical digit for a preparatory course shall be zero.

The course codes for theory and practical courses offered by a Department/School to the students of another Department/School shall also be having similar alphanumeric string with last two numerical digits specifying the Department/School for which the course shall be offered and the last alphabetic characters designating the course:

20. Course Credits

20.1 Each course shall have an integer number of credits, which will reflect its weightage.

The number of credits of a course in a semester shall ordinarily be calculated as under:

- (a) **Lectures/Tutorials:** One lecture hour per week shall normally be assigned one credit. One hour of tutorial per week shall be assigned one credit.
- (b) **Practicals:** A three hour of laboratory course per week shall normally be assigned two credits. The courses having three hours of contact every alternate week shall have one credit only; Similarly a six hours of Laboratory course per week shall normally be assigned 4 credits.
- (c) Special courses like practical training, seminar, project, dissertation, group discussion, Comprehensive Viva – Voce will have credits as per *Annexure 3 & 4*.

20.2 The total number of minimum teaching hours for a course during a semester shall not normally be less than fifteen times the number of assigned course credits.

21. Course Evaluation

21.1 A student shall be continuously evaluated for his/her academic performance in a course through tutorials, practicals, home assignments, term papers, field work, seminars, quizzes, Periodical Tests, and the End-Semester Examination (ESE), as applicable according to the guide lines formulated by the UGDC/PGDC/FET/ Academic Council for this purpose;

21.2 The distribution of weightage for each component shall be decided by the FET and announced by the Head of the Department/Coordinator of the School at the beginning of the course, subject to such stipulations as are given below:

(a) Theory Subjects:	
(i) Quizzes, home assignments and regularity	10%
(ii) Written Periodical tests, to be conducted departmentally	30%
(iii) End-semester examination	60%
	Total 100%
(b) Practical Subjects:	
(i) Sessional work, quizzes and regularity	50%
(ii) Practical examination	50%
	Total 100%

21.3 For evaluation, practical training, seminar, project, group discussion will be treated as practical subjects. There shall be End semester examination only for Comprehensive Viva-voce.

21.4 The Summer Training shall normally be evaluated through the quality of work carried out, the report submission and seminar presentation(s). The project(s) shall be evaluated normally by mid-semester seminar(s), quality of work carried out, project report submission and the viva-voce at the end of the semester;

21.5 The evaluation of the dissertation work (Seminar on Dissertations, Dissertation Interim Evaluation, Dissertation Open Defence and Dissertation - Evaluation) will be carried out as given below

- (a) For evaluating “Seminar of Dissertation”, “Dissertation – Interim Evaluation” and “Dissertation – Open Defence”, the BOE of the Department/ School shall nominate a five member coordination committee out of which one member shall be the convener who will be common for all the dissertations of the Department/ School irrespective of specializations.
- (b) There shall be an external examiner, appointed by the BOE of the Department/ School, for evaluating “Dissertation – Evaluation of a student, besides the internal examiner(s) who shall be the dissertation supervisor(s) of the student.

The final award of the grades for Dissertation –Evaluation shall be done as follows. The external examiner shall award marks out of 100. The internal examiner(s) shall also award marks out of 100. In the case of more than one internal examiner, all the internal examiners shall award combined marks out of 100. The final award of the grades shall be done on the basis of the average of these two marks.

21.6 The evaluation of the dissertation work carried out during the Summer Semester shall be done alongwith the evaluation of the dissertation work done during the Autumn (Odd) Semester of the Part-V (Fifth Year).

22. Coordination Committee:

- (a) For each course of a semester, a Coordination Committee shall be constituted by the Board of Examiners of the Department/School. The Board shall also nominate one faculty from amongst the members of the committee to act as the Convenor of the committee. For subjects requiring class room instructions the Coordination Committee shall consist of all the teachers involved in teaching and conducting classes for that subject (lectures, tutorials, field works, drawing/design work, practical laboratories, workshop classes, seminars, etc.)
- (b) The Coordination Committee shall have the following functions during the semester.
 - i) Planning and coordination of teaching theory as well as practical subjects.
 - ii) Scheduling home assignments, quizzes, etc.
 - iii) Conducting and assessing the Periodical Tests, etc.
 - iv) Setting of question papers for End Semester Examination and Supplementary Examination
 - v) Evaluation of Answer books and preparation of final marks list and submission of marks list to the Controller of Examinations.

22.1 Periodical Test

- (i) For theory subjects there shall be at least two periodical tests of not less than one hour duration.
- (ii) For theory subjects there shall be at least one quiz and one home assignment in addition to the Periodical Test.
- (iii) For practical subjects, day-to-day practical work is to be assessed and reviewed regularly during the semester through quizzes, viva-voce, etc.

22.2. Declaration of Result of Periodical Tests

- (a) The Convenor of the Coordination Committee of each course shall declare the marks obtained by each student in the Periodical Tests within a period as specified in the Institute’s academic calendar for that year.

- (b) The Convenor of the Coordination Committee shall also show periodical/ sessional test answer books to the student and shall make corrections, if necessary, in the mark earned by the student.
- (c) Towards the end of the semester the Convenor of Coordination Committee shall send the mark list of total marks obtained in the sessional tests, quizzes, home assignment etc. in a sealed envelope to the Head of the Department/Coordinator of the School.

23 End-Semester Examination

For each theory and practical subjects there shall be one end-semester examination of at least 3 hours duration.

At the time of registration a student shall also apply to the Controller of Examinations on a prescribed form and pay the prescribed 'Examination Fee' for seeking permission to appear in the end-semester examination. If the application is in order and he/ she has pursued a regular course of study in a semester satisfying the attendance requirement is eligible to appear in the End-Semester Examination and shall be issued Admit Card for appearing in the examination by the Controller of Examinations.

24. Supplementary Examination

- (a) End-semester Supplementary Examinations for the courses of each semester of a Part(Year) shall be held ordinarily in June/July every year (after at least 5 weeks from the end-semester examination) and the duration of examination in each course shall be as prescribed in Clause 23 and also shall have same weightage as that of the end-semester examination.
- (b) A student who has failed and/or failed to appear in one or more subjects of a Part(Year) shall be eligible to appear in the supplementary examination, in all the subjects in which he/she has failed and/or failed to appear in the main examination of that Part(Year).
- (c) A student who has passed in all the subjects of a Part(Year) but has failed to secure the minimum YGPA in that Part(Year) as prescribed under Clause 28(c) shall be eligible to appear in the supplementary examination upto maximum of **THREE** Theory subjects of that Part(Year) (including both Autumn (Odd) and Spring (Even) Semester subjects) to secure the required YGPA for passing that Part(Year).
- (d) A student who has failed to secure the minimum YGPA in a Part(Year) as prescribed under Clause 28(c) and also has failed and/or failed to appear, in not more than three subjects in that Part(Year) (including both Autumn (Odd) and Spring (Even) Semesters) may opt for additional theory subject(s) only of that Part(Year), to secure the required YGPA for passing, other than the subject(s) in which he/she has failed and/or failed to appear in the main examination of that Part(Year) provided the total number of subjects (of both Autumn (Odd) and Spring (Even) Semesters of that Part(Year)) so opted including the number of subjects in which he/she has obtained Grade "F" and/or "I" in that Part(Year) does not exceed **THREE**.
- (e) A student eligible to appear in supplementary examination shall apply to the Controller of Examinations in the prescribed form along with prescribed 'examination fee per subject' to seek permission to appear in supplementary examination. If the application is in order, the Controller of Examinations shall issue the Admit Card to the student entitling him/her to appear in the supplementary examination.

25. Grading System

- 25.1 Based on his/her continuous evaluation, the academic performance of a student during a semester shall be graded on a ten-point scale as per guidelines given in *Annexure-7 to 10*. The letter grades and their equivalent grade points are listed in *Annexure-7*. The grade

awarded to a student shall depend on his/her performance in various examinations, tests, home assignments, laboratory work, drawing and design classes, field work, regularity of attendance, etc.

A statistical grading system as per the details given in *Annexure 9 and 10* shall be adopted for all courses except “Dissertation Open Defence” and “Dissertation = Evaluation”. For deciding the grade of students appearing in Supplementary Examinations, the statistical method shall be used based on values of statistical parameters (mean and standard deviation) of the End Semester Examination. of the course

The evaluation of “Dissertation Open Defence” and “Dissertation = Evaluation” shall be based on the absolute grading system as per the detail given in *Annexure 8*.

At the end of a semester, based on the evaluation as per Clause 21, a student shall be awarded a letter grade in each course. For this purpose, there shall be nine grades – the seven (S, A, B, C, D, E, P) are the ‘passing’ grades and the last two (F, I) stand for the ‘Failure’ Grade. The correspondence between the ‘Academic Performance’, ‘Grade’, and ‘Grade Point’ is given in Annexure 7.

For absolute grading system there shall not be any “P” grade; i.e, there shall be only six passing grades (S, A, B, C, D, E).

Grade ‘I’, will be awarded to a student in each subject in which he/she fails to appear in the examination of a semester course. The Grade ‘I’ shall be deemed to have the same Grade Point as for the Grade ‘F’.

- 25.2 The letter grades awarded to a student in all the courses (except audit courses) shall be converted into semester, yearly and cumulative performance index called the Semester Grade Point Average (SGPA), Yearly Grade Point Average (YGPA) and Cumulative Grade Point Average (CGPA), respectively, to be calculated by following the procedures given in *Clause 27.1 to 27.5*

26 Award of Grades

The marks list for each subject after the end-semester examination and supplementary examination shall be prepared by respective coordination committee and shall be sent to the Controller of Examinations under sealed envelope The marks list will include the marks obtained in sessional and end semester examination/ supplementary examination and the total marks. It should also include the grade and grade x credit points awarded to the students.

The Coordination Committee shall be responsible for adherence to the guidelines for the award of grades. The Chairman, Coordination Committee shall be responsible for forwarding the final grades to the Controller of Examination. The Chairman shall also retain the record copies of the marks and the grades along with the statistical parameters, used if any.

27. Declaration of Results

The academic performance of a student during a semester/ part/ at the end of the programme, shall be evaluated on the basis of:

- (i) Grade obtained in each subject,
- (ii) Semester Grade Point Average (SGPA),
- (iii) Yearly Grade Point Average (YGPA),

- (iv) Cumulative Grade Point Average (CGPA), and
- (v) Degree Grade Point Average (DGPA).

27.1 At the end of each semester examination, a student shall be awarded a Semester Grade Point Average (SGPA), which shall be calculated as follows:

$$\text{SGPA} = \frac{[\text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses of the Semester}]}{[\text{Sum of the Credits of all the Courses of the Semester}]}$$

27.2 At the end of each Part (Year), a student shall be awarded an Yearly Grade Point Average (YGPA) which shall be calculated as follows:

$$\text{YGPA} = \frac{\left[\begin{array}{l} \text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses of the} \\ \text{Autumn (Odd) and Spring (Even) Semesters Courses of the Part(Year)} \end{array} \right]}{\left[\begin{array}{l} \text{Sum of the Credits of All the Courses of the Autumn (Odd) and Spring} \\ \text{(Even) Semesters Courses of the Part(Year)Semester} \end{array} \right]}$$

27.3 A Cumulative Grade Point Average (CGPA) shall be awarded to each student at the end of Part III of UGD Programme and at the end of Part IV of IDD and IMD, which shall be calculated as follows:

For UGD Programme

$$\text{CGPA} = \frac{[\text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses upto Part III}]}{[\text{Sum of the Credits of all the Courses up to Part III}]}$$

For IDD and IMD Programmes

$$\text{CGPA} = \frac{[\text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses upto Part IV}]}{[\text{Sum of the Credits of all the Courses up to Part IV}]}$$

27.4 At the end of Part-IV of the UG degree programme, a student who has passed Parts I, II, III, and IV of 4-Year B.Tech./B.Pharm. programme shall be awarded a Degree Grade Point Average (DGPA) which shall be calculated as follows:

$$\text{DGPA} = \frac{[\text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses upto Part IV}]}{[\text{Sum of the Credits of all the Courses up to Part IV}]}$$

At the end of Part-V of the IDD/IMD programme, a student who has passed Parts I, II, III, IV and V of 5-Year integrated B.Tech.-M.Tech./B.Pharm.-M.Pharm. or Integrated M.Tech. Programme shall be awarded a Degree Grade Point Average (DGPA) which shall be calculated as follows:

$$\text{DGPA} = \frac{[\text{Sum of the Products (Credit} \times \text{Grade Point) for all the Courses upto Part V}]}{[\text{Sum of the Credits of all the Courses up to Part V}]}$$

27.5 From SGPA/YGPA/CGPA/DGPA, the Equivalent Average Percentage of marks may be obtained by the following formula:

$$X = 10Y$$

where X is the Equivalent Average Percentage of marks and Y is the SGPA/YGPA/CGPA/DGPA, as the case may be.

28 Promotion and Award of Degree

- (a) A student who has satisfied the conditions laid down in Clause 8 and who has pursued the courses of the Autumn (Odd) Semester as per Clause 8.5 and clause 12 shall be automatically promoted to the Spring (Even) Semester irrespective of whether he/she passes, fails, or fails to appear in the Autumn (Odd) Semester examination.
- (b) A student shall be considered to have *PASSED* the Semester Course if he/she has obtained an appropriate passing grade in each course of the semester. A student shall be considered to have *FAILED* in the Semester if he/she fails to fulfill the above condition.
- (c) A student shall be considered to have passed a Part (Year) of UGD/ IDD/ IMD programme if he has passed in both the semesters of that Part and has obtained a YGPA of 5.0 or more and shall be promoted to the next Part (Year). A student shall be considered to have *FAILED* in the Part (Year) if he/ she fails to fulfill the above condition.
- (d) A student shall be considered to have passed the UG degree/IDD/IMD programme if he/she has passed all parts(years) of the concerned programme and has obtained a DGPA of 5.00 or more.

A student shall be declared to have *Failed* in the Course if he/she fails to fulfill the above conditions.

28.1 Classification of Results

On the basis of the DGPA, the result of each student shall be declared as follows:

<i>DGPA</i>	<i>Result</i>
7.50 and above	Passed in <i>First Class with Honours</i> .
6.50 and above but less than 7.50	Passed in <i>First Class</i> .
5.00 and above but less than 6.50	Passed in <i>Second Class</i>
Below 5.00	<i>Failed</i> .

28.2 Ranking

A student who has passed the UG degree/IDD/IMD programme shall be ranked on the basis of his/her DGPA, only if he/she has passed in all of the examinations of Part-I, Part-II, Part-III, Part-IV and Part-V (for IDD/IMD) courses in the respective regular semester examinations at the first appearance fulfilling the minimum requirement of YGPA and DGPA as envisaged in Clauses 27.1 to 27.4.

28.3 Grade Cards

- (a) At the end of each semester examination a Grade Card shall be issued to every student which shall contain the following information:

The Letter Grade obtained in each course (including audit courses) along with the respective assigned credits Sum of (Credits × Grade Point) obtained,

SGPA (in all semester grade cards),

YGPA (in all even semester grade cards),

CGPA (in even semester grade cards of Part-III of UGD and Part IV of IDD and IMD),

DGPA (in even semester grade cards of Part-IV of UGD and Part V of IDD and IMD),

SEMESTER COURSE PASSED or FAILED and promoted to next semester (in all odd semester examinations), or

PART-I/II/III/IV/V COURSE PASSED or FAILED in all even semester examinations, or

B.Tech./B.Pharm. or B.Tech.-M.Tech./B.Pharm.-M.Pharm. or M.Tech. COURSE PASSED IN..... CLASS/FIRST CLASS WITH HONOURS or FAILED, as the case may be.

In addition, the Grade Card of the Final Semester of Part-IV and Part V shall show the YGPAs of all the lower Parts of the course.

- (b) Each Grade Card shall also contain (on the backside) the calculation formula of SGPA/ YGPA/ CGPA as per clause 27.1, 27.2 and 27.3.
- (c) Grade card of VIII Semester (UGD) and X Semester (IDD and IMD) shall also contain (on the backside) the calculation formula of DGPA and equivalent percentage of marks as per Clause 27.4 and 27.5. It will also contain the classification of results on the basis of DGPA.
- (d) A failed student who appears in supplementary examination (s) in accordance with Clause 24 of these Regulations, shall be issued fresh Grade Card(s) superseding the previous Grade Card(s). This/These Grade Card(s) shall indicate the latest Grade(s) obtained by the student in such subject(s) which he/she opted to appear in, together with the grade(s) obtained by him/her in other subject(s) in the previous examination. The Grade Card(s) shall also indicate the latest SGPA/YGPA/CGPA/DGPA, as the case may be, and the result of the student shall be declared on the basis of these latest Grades and the SGPA/YGPA/DGPA.
- (e) Whenever a student applies for scrutiny of grades in accordance with Clause 28.4 of these Regulations (as per the existing University Ordinances/Regulations operative at the time) which results in a change in the Grade (s) in one or more subjects in any semester, fresh Grade Card shall be issued replacing the previous one corresponding to the semester in which the changes have occurred. The Grade Card shall indicate the latest Grade (s) obtained by the student following re-evaluation together with the Grade(s) obtained by him/her earlier in the other subject(s) and the corresponding latest SGPA/YGPA/CGPA/ DGPA, as the case may be and the result of the student shall be declared on the basis of these latest Grades and the SGPA/YGPA/DGPA.
- (f) Whenever the result of a student in any semester examination gets modified due to scrutiny, which results in any change in the result of any higher semester examination, fresh Grade Cards shall be issued for all the affected higher semesters replacing the original ones.

28.4. Scrutiny of Grades/ Re-Evaluation of Answer Books

A student may apply to the Controller of Examinations through Dean, FET/Head of the Department/Coordinator of the School, as the case may be, for scrutiny of grades/ Re-evaluation of Semester Examination Answer book by paying the specified fees, within three weeks from the date of declaration of results. The results of scrutiny/ Re-evaluation may lead to either a change in grade or the grade may remain unchanged. The grade obtained after scrutiny/ re-evaluation shall be considered final. The results of scrutiny/ reevaluation will be intimated to the Controller of Examination.

For scrutiny of grades a Committee consisting of the Dean, FET/Head of the Department/Coordinator of the School, as the case may be and the Course Coordinator may check the entry of the weightage from different components of evaluation and their addition, the addition of marks in the final answer scripts and unchecked questions, if

any. For the Part I classes, the Dean, FET, Part I Class Coordinator and the Course Coordinator shall constitute the Scrutiny Committee.

For re-evaluation of answer books a committee will be formed by the Dean, FET consisting of two experts from within the Institute of Technology/BHU or other Institution.

28.5 In exceptional circumstances, the grade (s) of a student or a number of students may be scrutinized by a Committee constituted by the Dean, FET/Director of the Institute.

29. Unfair Means and Plagiarism

29.1 In case a student is found adopting or suspected of adopting unfair means before, during or after the examination, or lifting of some other's work(s) and inserting it in his Class Work Submissions, Project, Seminar Reports and Dissertation, etc. without proper acknowledgement, credit and reference, or plagiarizing the Dissertation/Project/Class Work Submissions/ Reports, etc., such penal action shall be taken by the Institute as may be necessary to uphold the sanctity and integrity of the examination system and the credibility of the Institute/University;

29.2 All such cases may be taken suo-moto cognizance of by the Disciplinary/Unfair Means Committee appointed by the Vice-chancellor/Academic Council for this purpose. Such cases may also be reported by any person, including invigilator(s)/examiner (s) to the Dean, Faculty and/or the Disciplinary/Unfair Means Committee for its consideration. General instructions for penal action for use of unfair means and plagiarism shall be notified to the students and the Faculty of the Institute by the Director of the Institute/Dean, FET from time to time.

29.3 For Project, Class Work Submissions, Seminar Reports, Periodical Test etc., the Course Coordination Committee may report the matter to the concerned BOS / DRAC /SRAC, as the case may be. The BOS/DRAC/SRAC may, after considering the matter reported to it and after giving an opportunity to the concerned student to explain his/her conduct, impose appropriate penalty, including the award of F Grade in the concerned course(s) to the concerned student.

30. Scholarships, Prizes and Certificates

30.1 The Institute shall award the merit-cum- means (MCM) scholarships, fee-waivers, SC/ST category institute scholarships and such other scholarships and MHRD assistantships, awards and prizes as approved by the Executive Council/Academic Council. The other scholarships may be instituted by grants from individuals, trusts, organizations and the Governments with a view to provide financial assistance to needy students under the terms and conditions specified by the donor/Institute. A student registered for the Part-V(Fifth Year) of the IDD/IMD programme, who has cleared all the coursework requirements upto Part-IV(Fourth Year) of the programme and has (i)CGPA not less than 8.0, or (ii) qualified GATE, may be offered MHRD scholarship/assistantship if available on the basis of his/her attendance in the courses registered in a semester and his/her fulfilling the requirement of weekly workhours assigned to him/her by the Department/ School/FET.

If the portion of the dissertation carried out by a student in the Autumn (Odd) Semester of Fifth Year of the programme is graded F, the student shall cease to get scholarships/assistantships in the next semester. Announcements on these scholarships/assistantships stating eligibility and the number and value of scholarships/assistantships etc. shall be made while inviting applications from time to time;

30.2 A student may draw scholarships or stipends from outside sources with the necessary permission from the Director/Dean, FET.

31. Academic Bodies/Committees

All academic programmes offered by the Institute/FET shall be administered and monitored through appropriate bodies setup for this purpose by the University/Institute/Department/School.

31.1 Faculty of Engineering and Technology (FET)

The Faculty of Engineering and Technology (FET) shall be a subcommittee of the Academic Council, which shall consider all the academic matters recommended by the BOS and coordinate their activities. It shall also consider and recommend to the Academic Council the broad framework and policies related to the Undergraduate Degree /Integrated Dual Degree/Integrated Master's Degree programmes and such other programmes offered by the Institute. FET will be constituted as per the Ordinances of the University.

31.2 Board of Studies of the Department/School (BOS)

- (a) There shall be a Board of Studies at the Department/School level comprising all the regular faculty members of the Department/School and two external members (preferably one from academic institution and another from industry), which may be called the Board of Studies of Department/School (BOS). The term of a BOS shall be 2 years. It shall be constituted by every Department/School. The BOS shall be responsible for considering all the policy issues concerning academic programmes of the Department/School. The BOS shall formulate and finalize academic programmes and courses as recommended by the UGDC/PGDC to it and send its recommendation(s) to the FET for consideration/approval, as the case may be.
- (b) For the Institute level courses a Programme Coordinator shall be appointed by the Director in consultation with the Dean, FET and the Heads of the concerned Departments/Schools to look after all the administrative and academic matters related to the Institute courses. The Programme Coordinator shall exercise the functions of the Head of Department/Coordinator of the School/Chairperson, UGDC for such a programme. The BOS for such courses shall consist of Programme Coordinator, the two senior most teachers associated with the courses and two external experts.

31.3 Board of Examiners (BOE)

The Board of Examiners (BOE) for a Department/School shall be constituted for a period of two years and as per the norms fixed by the Academic Council. The BOE shall consist of three members: (a) Head of the Department/Coordinator of the School as the Convener (b) Two senior most professors of the Department/School as members. For Institute level courses coordinated by the Programme Coordinator, the BOE shall consist of: (a) Programme Coordinator (as Convener) and (b) Two senior most teachers from amongst the teachers associated with the teaching of course as members.

The BOE shall be responsible for appointing examiners, for all courses theory, laboratory, project, dissertation, etc.

31.4 Departmental/School's Academic Sub-Committees

- (a) The UG degree/IDD/IMD programme shall be administered and monitored through the Departmental Academic Committees viz. the Undergraduate Degree Committee (UGDC), Postgraduate Degree Committee (PGDC). All such committees shall be constituted by Head of Department/ Coordinator of School and shall consist of three

faculty members of the Department/ School with the senior most member being the chairman. All the courses of the UG degree programme (i.e. those bearing UG course numbers -100 to 400 series) shall be governed by the UGDC, and all the courses of the PG programme (i.e. those bearing PG course numbers -500 to 600 series) shall be governed by the PGDC, as the case may be.

(b) Undergraduate Degree Committee (UGDC)

The Undergraduate Degree Committee (UGDC) shall be constituted by the Head of the Department/Coordinator of the School to look after all academic matters pertaining to the undergraduate programmes and the undergraduate courses of the IDD/IMD Programme(s) offered by the Department/School.

(c) Postgraduate Degree Committee (PGDC)

The Post Graduate Degree Committee (PGDC) shall be constituted by the Head of the Department/Coordinator of the School to look after all the academic matters pertaining to post graduate courses of the Dual Degree/Integrated Master's Degree Programmes.

31.5 Course Convener

Every course offered by a Department/School shall be coordinated by a Course Convener appointed by the Head of the Department/Coordinator of the School. The Course Convener shall have full responsibility for the course. He/She shall coordinate the work of other faculty member(s) involved in the teaching of that course in respect of their participation in various activities related to the course including continuous evaluation of the students through tests, quizzes, assignments, Periodical Tests and End-Semester Examination, and the award of the grades.

31.6 First Year Class Coordinator

The courses in the first year shall be coordinated by a First Year Class Coordinator appointed by the Director of the Institute. The First Year Class Coordinator shall coordinate the time schedules for the first year classes and shall perform such other duties and exercise such other powers of the Head/Chairperson, UGDC, as are necessary for the organization of the courses offered in the first year.

31.7 Preparatory Programme Coordinator

The preparatory courses shall be offered to SC/ST students admitted to UG Degree/IDD/IMD programmes through JEE, prior to their joining UG Degree or IDD/IMD programme. A Coordinator appointed by the Director shall coordinate these courses. The Coordinator shall also be responsible for fixing the time schedule and finalization of the results to be submitted to the Dean, FET, immediately on completion of the second semester of the programme, as per schedule approved by the Dean, FET.

31.8 Advisor, SC/ST Students

The Preparatory Programme Coordinator shall also act as the Advisor, SC/ST Students, to advise them and provide assistance in academic matters.

31.9 Faculty Advisor

A Faculty Advisor shall be appointed by the Head of the Department/Coordinator of the School. The Faculty Advisor shall be responsible for advising the students on selection and registration to the courses.

32. Phasing Out of a Programme

The phasing out of an Undergraduate Degree or Integrated Dual-Degree or Integrated Master's Degree programme may be considered by the Academic Council on the recommendation of a BOS and the FET. Also, a programme may be phased out by the Academic Council on the recommendation of the FET if, consecutively for three years, the number of students registering for the programme is less than 40% of the sanctioned intake of the students.

33. Starting a New Programme

- (a) The Executive Council may approve the starting of a new programme or a modified programme in lieu of the old phased-out programme on the recommendation of the BOS, the FET and the Academic Council;
- (b) A new programme may be considered and recommended by the Academic Council to the Executive Council for its consideration and approval. Such a proposal will be initiated by a Department/School through its BOS and considered and recommended by the FET.

34. Minimum Students Requirement for an Elective Course

An elective course in a Department/School shall run only if a minimum of five students register for it in a regular semester. However, under special circumstances, a course may run with fewer students with the prior permission of the Chairperson, Academic Council/Director/Dean.

35. Interpretation of Regulations

In case of any dispute, difference of opinion in interpretation of these regulations or any other matter not covered in these regulations, the decision of the Chairperson, Academic Council/Executive Council shall be final and binding;

36. Emergent Cases

Notwithstanding anything contained in the above regulations, the Chairperson of the Academic Council/Executive Council may, in emergent situations, take such action on behalf of the Academic Council/Executive Council, as he/she deems appropriate and reports it to the next meeting of the Academic Council/Executive Council for its approval.

PART D: Annexures

1. Four Year Undergraduate (UG) Degree Programmes Offered by the Institute
2. Five-Year Integrated Dual Degree (IDD) (B.Tech. & M.Tech./B.Pharm. & M.Pharm.)/ Integrated Master's Degree (IMD) Programmes Offered by the Institute
3. Structure of 4-Year Undergraduate Degree (B.Tech./B.Pharm.) Programmes Offered by the Institute
4. (a): Structure of 5-Year Integrated Dual Degree (B.Tech./B.Pharm. & M.Tech./M.Pharm.) Programmes Offered by the Institute (b): Structure of 5-Year Integrated Master's Degree (M.Tech.) Programmes Offered by the Institute
5. Fee Structure for UGD/IDD/IMD Programme Students
6. Alphanumeric Coding System for Theory/Laboratory etc. Courses.
7. Structure of Grading of Academic Performance
8. Award of Grades Based on Absolute Marks System
9. Statistical Methods for the Award of Grades
- 10 General Guidelines for Award of Grades

ANNEXURE-1

4-Year Undergraduate Degree Programmes Offered by the Institute

Department	Degree Name	Specialization, If Any
Department of Ceramic Engineering	B.Tech.	(Ceramic Engg.)
Department of Chemical Engineering & Technology	B.Tech.	(Chemical Engg.)
Department of Computer Engineering	B.Tech.	(Comp. Sc. & Engg.)
Department of Civil Engineering	B.Tech.	(Civil Engg.)
Department of Electrical Engineering	B.Tech.	(Electrical Engg.)
Department of Electronics Engineering	B.Tech.	(Electronics Engg.)
Department of Mechanical Engineering	B.Tech.	(Mechanical Engg.)
Department of Metallurgical Engineering	B.Tech.	(Metallurgical Engg.)
Department of Mining Engineering	B.Tech.	(Mining Engg.)
Department of Pharmaceutics	B.Pharm.	

ANNEXURE-2

5-Year Integrated Dual-Degree (IDD)/5-Year Integrated Mater's Degree (IMD) Programmes Offered by the Institute

Department	Degree Name
Department of Applied Chemistry	M.Tech.(Industrial Chemistry)
Department of Applied Mathematics	M.Tech.(Mathematics and Computing)
Department of Applied Physics	M.Tech.(Engineering Physics)
Department of Ceramic Engineering	B.Tech. (Ceramic Engg.), M.Tech. (Ceramic Engg.)
Department of Computer Engineering	B.Tech. (Comp. Sc. & Engg.) M.Tech. (Comp. Sc. & Engg.)
Department of Civil Engineering	B.Tech. (Civil Engg.) M.Tech. (Structural Engg.)
*Department of Electrical Engineering	B.Tech. (Electrical Engg.) M.Tech. (Power Electronics)
Department of Mechanical Engineering	B.Tech. (Mechanical Engg.) M.Tech. (Mechanical Engg.)
Department of Metallurgical Engineering	B.Tech. (Metallurgical Engg.) M.Tech. (Metallurgical Engg.)
*Department of Mining Engineering	B.Tech. (Mining Engg.) M.Tech. (Mining Engg.)
*Department of Pharmaceutics	B.Pharm. M.Pharm.
*School of Biochemical Engineering	B. Tech. (Biochemical Engineering) M.Tech. (Biochemical Engineering and Biotechnology)
*School of Biomedical Engineering	B.Tech. (Bioengineering) M.Tech. (Biomedical Technology)
School of Materials Science & Technology	B.Tech. (Materials Science & Technology) M.Tech. (Materials Science & Technology)

* Applicable from the session 2006-07.

ANNEXURE-3
Structure of 4-Year Undergraduate Degree (B.Tech./B.Pharm.)
Programmes Offered by the Institute

B. Tech Part-I

I Semester for FIRST group of students / II Semester for SECOND group of students†

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
1. Mathematics I	3	3
2. Physics I	3	3
3. Chemistry I	3	3
4. Engineering Mechanics	3	3
5. Computer Programming and Graphics	4	4
<i>Practical:</i>		
6. Physics Lab	3	2
7. Computer Lab	3	2
8. Engineering Drawing	4	3
9. Workshop Practice	3	2
Total for I/II Semester	29	25

II Semester for FIRST group of students / I Semester for SECOND group of students†

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
1. Mathematics II	3	3
2. Physics II	3	3
3. Chemistry II	3	3
4. Thermodynamics	3	3
5. Environmental Studies	4*	4
6. Professional Writing	3	3
<i>Practical:</i>		
7. Physics Lab	3	2
8. Chemistry Lab	3	2
9. Workshop Practice	3	2
Total for II/I Semester	28	25
Total for Part-I		50

* Includes fieldwork that shall be of 5 hours duration in the entire semester.

† FIRST Group of students shall be the students of the following departments:
 Computer Engineering, Ceramic Engineering, Chemical Engineering, Civil Engineering, and Electrical Engineering.

SECOND Group of students shall be the students of the following departments:
 Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, and Mining Engineering.

B. Pharm Part-I

I Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
4-5 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	13-16	13-16
Computer Programming and Graphics	4	4
<i>Practical:</i>		
2-3 Practicals	6-9	4-6
Computer Lab	3	2
Total for I Semester	28-30	25-26

II Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
3-4 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	10-13	10-13
Environmental Studies	4*	4
Professional Writing	3	3
<i>Practical:</i>		
2-4 Practicals	9-12	6-8
Total for II Semester	28-30	25-26
Total for Part-I		50-52

* Includes fieldwork that shall be of 5 hours duration in the entire semester.

B. Tech / B. Pharm Part-II

III Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects* with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for III Semester	26-30	24-26

IV Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects* with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for IV Semester	26-30	24-26
Total for Part-II		50-52[†]

[†] The subjects in III and IV Semesters shall be so chosen that the total of credits for Part-II is 50-52.

*Note:

1. There shall be a course on 'Materials Science' in either III or IV Semester for the students of all the departments except for the students of Department of Pharmaceutics. The Departments are free to make their own syllabi for their students for this course. However, if they wish, they may choose the syllabus for the Materials Science course for B.Tech. Part II students prepared by the School of Materials Science and Technology.
2. There shall be at least one Institute core subject per semester of 3 credits from the following (only for B.Tech. students);
 1. Mathematical Methods
 2. Numerical Methods
 3. Electronics and Instrumentation
 4. Reaction Kinetics
 5. Introduction of Biotechnology

B. Tech / B. Pharm Part-III

V Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for V Semester	26-30	24-26

VI Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
Open Elective (Humanities)	3	3
4-5 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	14-17	14-17
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for VI Semester	26-30	24-26
Total for Part-III		50-52[†]

[†] The subjects in V and VI Semesters shall be so chosen that the total of credits for Part-III is 50-52.

B. Tech / B. Pharm Part-IV

VII Semester:

Subjects	Contact Hours/Week	Credits
Theory:		
3-4 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	9-12	9-12
1 Elective (3 credits)	3	3
Practical:		
1-2 Practicals	3-6	2-4
Project	3	2
Seminar/ Group Discussion	3	2
Training/ Tour Viva-Voce	--	2
Total for VII Semester	23-25	22-23

VIII Semester:

Subjects	Contact Hours/Week	Credits
Theory:		
2 Compulsory (3/4 Credits each) + 2 Electives (3 Credits each) OR 3 Compulsory (3/4 Credits each) + 1 Elective (3 Credits)	12-14	12-14
Practical:		
1-2 Practicals	3-6	2-4
Project	9	6
Comprehensive Viva-Voce	--	2
Total for VIII Semester	25-27	23-24
Total for Part-IV		45-47
Total for B. Tech / B. Pharm Course		195-203

List of Open Electives (Humanities)

1. HU-321: History of Science and Technology.
2. HU-322: Industrial and Organisational Psychology.
3. HU-323: Intellectual Property Rights.
4. HU-324: Energy Management.
5. HU-325: Industrial Sociology.
6. HU-326: Ethics, Philosophy and Values.
7. HU-327: Entrepreneurship Development.

ANNEXURE-4 (A)
Structure of 5-Year Integrated Dual Degree (B.Tech./B.Pharm. & M.Tech./M.Pharm) Programmes Offered by the Institute

Integrated Dual Degree Part-I

I Semester for FIRST group of students / II Semester for SECOND group of students†

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
1. Mathematics I	3	3
2. Physics I	3	3
3. Chemistry I	3	3
4. Engineering Mechanics	3	3
5. Computer Programming and Graphics	4	4
<i>Practical:</i>		
6. Physics Lab	3	2
7. Computer Lab	3	2
8. Engineering Drawing	4	3
9. Workshop Practice	3	2
Total for I/II Semester	29	25

II Semester for FIRST group of students / I Semester for SECOND group of students†

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
1. Mathematics II	3	3
2. Physics II	3	3
3. Chemistry II	3	3
4. Thermodynamics	3	3
5. Environmental Studies	4*	4
6. Professional Communication	3	3
<i>Practical:</i>		
7. Physics Lab	3	2
8. Chemistry Lab	3	2
9. Workshop Practice	3	2
Total for II/I Semester	28	25
Total for Part-I		50

* Includes fieldwork that shall be of 5 hours duration in the entire semester.

† FIRST Group of students shall be the students of the following departments:
 Computer Engineering, Ceramic Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering and School of Materials Science and Technology.

SECOND Group of students shall be the students of the following departments:
 Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, and Mining Engineering.

Integrated Dual Degree Part-I (Pharmaceutics)

I Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
4-5 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	13-16	13-16
Computer Programming and Graphics	4	4
<i>Practical:</i>		
2-3 Practicals	6-9	4-6
Computer Lab	3	2
Total for I Semester	28-30	25-26

II Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
3-4 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	10-13	10-13
Environmental Studies	4*	4
Professional Communication	3	3
<i>Practical:</i>		
2-4 Practicals	9-12	6-8
Total for II Semester	28-30	25-26
Total for Part-I		50-52

* Includes fieldwork that shall be of 5 hours duration in the entire semester.

Typical combinations of contact hrs / week and the corresponding credits for I Semester:

	(Contact hrs / week)				(Corresponding credits)			
Theory (Compulsory)	13	14	15	16	13	14	15	16
Computer Programming and Graphics	4	4	4	4	4	4	4	4
Practicals (with 3/6 contact hrs/week)	9	9	6	6	6	6	4	4
Computer Lab	3	3	3	3	2	2	2	2
Total	29	30	28	29	25	26	25	26

Typical combinations of contact hrs / week and the corresponding credits for II Semester:

	(Contact hrs / week)				(Corresponding credits)			
Theory (Compulsory)	10	11	12	13	10	11	12	13
Environmental Studies	4	4	4	4	4	4	4	4
Professional Writing	3	3	3	3	3	3	3	3
Practicals (with 3/6 contact hrs/week)	12	12	9	9	8	8	6	6
Total	29	30	28	29	25	26	25	26

Permissible combinations of 3- and 4-credit theory subjects in I and II Semesters:

- If 6 subjects are offered: $(5 \times 3\text{cr}) + (1 \times 4\text{cr}) = 19$ credits
 $(4 \times 3\text{cr}) + (2 \times 4\text{cr}) = 20$ credits
- If 5 subjects are offered: $(3 \times 3\text{cr}) + (2 \times 4\text{cr}) = 17$ credits
 $(2 \times 3\text{cr}) + (3 \times 4\text{cr}) = 18$ credits

Integrated Dual Degree Part-II

III Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects* with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for III Semester	26-30	24-26

IV Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects* with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for IV Semester	26-30	24-26
Total for Part-II		50-52[†]

[†] The subjects in III and IV Semesters shall be so chosen that the total of credits for Part-II is 50-52.

*Note:

1. There shall be a course on 'Materials Science' in either III or IV Semester for the students of all the departments except for the students of Department of Pharmaceutics. The Departments are free to make their own syllabi for their students for this course. However, if they wish, they may choose the syllabus for the Materials Science course for B.Tech. Part II students prepared by the School of Materials Science and Technology.
2. There shall be at least one Institute core subject per semester of 3 credits from the following (only for B.Tech. students);
 1. Mathematical Methods
 2. Numerical Methods
 3. Electronics and Instrumentation
 4. Reaction Kinetics
 5. Introduction of Biotechnology

Typical combinations of contact hrs / week and the corresponding credits for III and IV Semesters:

	(Contact hrs / week)						(Corresponding credits)					
Theory	17	18	18	19	20	20	17	18	18	19	20	20
Practicals	12	12	9	9	9	6	8	8	6	6	6	4
Total	29	30	27	28	29	26	25	26	24	25	26	24

Permissible combinations of 3- and 4-credit theory subjects in III and IV-Semesters:

If 6 subjects are offered: $(6 \times 3\text{cr}) = 18$ credits

$(5 \times 3\text{cr}) + (1 \times 4\text{cr}) = 19$ credits

$(4 \times 3\text{cr}) + (2 \times 4\text{cr}) = 20$ credits

If 5 subjects are offered: $(3 \times 3\text{cr}) + (2 \times 4\text{cr}) = 17$ credits

Integrated Dual Degree Part-III

V Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
5-6 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	17-20	17-20
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for V Semester	26-30	24-26

VI Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:</i>		
Open Elective (Humanities)	3	3
4-5 Subjects with 3/4 Credits (not more than TWO 4-credit subjects)	14-17	14-17
<i>Practical:</i>		
2-4 Practicals	6-12	4-8
Total for VI Semester	26-30	24-26
Total for Part-III		50-52[†]

[†] The subjects in V and VI Semesters shall be so chosen that the total of credits for Part-III is 50-52.

Typical combinations of contact hrs / week and the corresponding credits for V and VI Semesters:

	(Contact hrs / week)	(Corresponding credits)
Theory	17 18 18 19 20 20	17 18 18 19 20 20
Practicals	12 12 9 9 9 6	8 8 6 6 6 4
Total	29 30 27 28 29 26	25 26 24 25 26 24

Permissible combinations of 3- and 4-credit theory subjects in V and VI Semesters:

If 6 subjects are offered: (6 x 3cr) = 18 credits
 (5 x 3cr)+(1 x 4cr) = 19 credits
 (4 x 3cr)+(2 x 4cr) = 20 credits

If 5 subjects are offered: (3 x 3cr)+(2 x 4cr) = 17 credits

List of Open Electives (Humanities)

1. HU-321: History of Science and Technology.
2. HU-322: Industrial and Organisational Psychology.
3. HU-323: Intellectual Property Rights.
4. HU-324: Energy Management.
5. HU-325: Industrial Sociology.
6. HU-326: Ethics, Philosophy and Values.
7. HU-327: Entrepreneurship Development.

Integrated Dual Degree Part-V

IX Semester:

Subjects	Contact Hours/Week	Credits
<i>Theory:(Four Subjects)</i>		
1-2 Departmental PG Core Subject	3-6	3-6
3-2 PG Elective Subjects	9-6	9-6
<i>Practical:</i>		
1 PG Laboratory	3	2
Seminar on Dissertation	--	5
Dissertation Interim Evaluation	9	5
Total for IX Semester	24	24

PG Elective: If required the Department/School may opt for an elective from other departments.

X Semester:

Subjects	Contact Hours/Week	Credits
1. PG Seminar	2	1
2. Dissertation Open Defence	--	5
3. Dissertation – Evaluation	--	10
Total for X Semester	2	16
Total for Part-V		40
Total for M. Tech / M. Pharm Course		240-247

ANNEXURE-4 (B)

Structure of 5-Year Integrated Master's Degree (M.Tech.) Programmes Offered by the Institute

Applied Chemistry -	Industrial chemistry
Applied Mathematics-	Applied Mathematics & Computing
Applied Physics-	Engineering Physics

Integrated M.Tech. Part-I

I – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory:</i>		
Same as B. Tech. Part – I (1st Semester)	17	17
<i>Practicals:</i>		
Same as B. Tech. Part – I (1st Semester)	12	8
Total	29	25

II – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory:</i>		
Same as B. Tech. Part – I (2nd Semester)	20	20
<i>Practicals:</i>		
Same as B. Tech. Part – I (2nd Semester)	9	6
Total	29	26

Integrated M.Tech. Part-II

III – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory: 6 Subjects</i>		
2 subjects from concerned departments and 1 each from other two applied science departments.	12	12
2 subjects from allied Engineering departments.	06	06
<i>Practicals:</i>		
Physics Lab	3	2
Chemistry Lab	3	2
Computer Lab	3	2
Total	27	24

IV – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory: 6 Subjects</i>		
2 subjects from concerned departments and 1 each from other two applied science departments.	12	12
2 subjects from allied Engineering departments.	06	06
<i>Practicals:</i>		
Physics Lab	3	2
Chemistry Lab	3	2
Computer Lab	3	2
Total	27	24

Integrated M.Tech. Part-III

V – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory: 6/8 Subjects</i> *		
4-6 Subjects from concerned departments.		
2 Subjects from other departments of Applied Sciences.	18-24	18-24
<i>Practicals:</i>		
0-3 practicals (concerned subject only) (For Applied Mathematics Only)	0-09	0-06
Total	24 – 27	24

* Applied Mathematics Department Only.

VI – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory:</i>		
Open Elective (Humanities)	3	3
5 – 6* subjects with 3 credits. (0 – 2 subjects may be opted from other allied departments) (* Applied Maths only)	15 – 18	15 – 18
<i>Practicals:</i>		
3 – 2* practicals (concerned subject only) *(For Applied Maths)	9 – 6	6 – 4
Total	27	24 – 25

Integrated M.Tech. Part-IV

VII – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory: 6/7 Subjects</i> *		
4-5 Subjects from concerned departments	18-22	18-22
2 Subjects from other departments or school (PG)		
* For Applied Maths. 1 subjects of 4 credit		
<i>Practicals:</i>		
0-2 practicals	6	4
Seminar/ Group Discussion	3	2
Summer Practical Training evaluation	-	2
Total	25 – 27	26

* For Applied Mathematics Only.

VIII – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory:</i>		
5 Subjects from the concerned department.	15	15
<i>Practicals:</i>		
2 practicals	06	04
Project	06	04
Total	27	23

Integrated M.Tech. Part-V

IX – Semester:

Subjects	Contact Hrs./ Week	Credit
<i>Theory:</i>		
2 core subjects of concerned departments.	06	06
3 elective subjects of concerned department.	09	09
PG Practical	03	02
Seminar on Dissertation	-	05
Dissertation interim evaluation	09	05
Total	27	27

X – Semester:

Subjects	Contact Hrs./ Week	Credit
PG Seminar	02	01
Dissertation open defence	-	05
Dissertation evaluation	-	10
Total	-	16

ANNEXURE-5
Fee Payable by UGD/IDD/IMD Programme Students

Every UGD/IDD/IMD programme will be required to pay fees (semester wise/annual) under following heads. The amount to be paid under each head shall be decide by the Institute/University and notified from time to time:

Particular	Amount (Rupees)
Tuition Fee	600.00
Industrial Excursion Fee	300.00
Academic Assessment Fees	700.00
Health Service Charges	270.00
Library Fee	1000.00
Computer Facility Fee	1000.00
Development of Laboratory Facilities	6000.00
Maintenance of Institute Facilities	2200.00
Extra-curricular Activities Fee	500.00
Hostel Rent	70.00
Fan Charges	25.00
Hostel Development & Maintenance Fund	825.00
Boarders Amenities Fee	280.00
Student's Aid Fund	100.00
Delegacy/Union Fee	40.00
Total Per Semester Except First Semester	13910.00
Training and Placement Fee	1500.00
Alumni Activities Fee	200.00
Enrolment Fee	50.00
Admission Fee	50.00
Lab. Caution Money	1000.00
Library Caution Money	1000.00
Mess Caution Money	1000.00
Fan Caution Money	1000.00
Laminated Identity Card	25.00
Total at the Time of Admission	19735.00

Note: Rs. 1500.00 JEE Expenses will be realized from new entrants only.

ANNEXURE-6

Alphanumeric Coding System for Theory/Laboratory etc. Courses.

Sl. No.	DEPARTMENT/SCHOOL	ALPHABETIC CODE	NUMERIC CODE
1.	Department of Applied Chemistry	AC	10
2.	Department of Applied Mathematics	AM	11
3.	Department of Applied Physics	AP	12
4.	Department of Ceramic Engineering	CR	01
5.	Department of Chemical Engineering & Technology	CH	02
6.	Department of Civil Engineering	CE	03
7.	Department of Computer Engineering	CS	00
8.	Department of Electrical Engineering	EE	04
9.	Department of Electronics Engineering	EC	05
10.	Department of Mechanical Engineering	ME	06
11.	Department of Metallurgical Engineering	MT	07
12.	Department of Mining Engineering	MN	08
13.	Department of Pharmaceutics	PH	21
14.	School of Biochemical Engineering	BC	13
15.	School of Biomedical Engineering	BM	14
16.	School of Materials Science & Technology	MS	15

Following **alphabetical codes** will be used for the under mentioned courses offered to all B.Tech/B.Pharm., Integrated Dual Degree, & Integrated M. Tech. Programme students at Part-I level in place of the departmental alphabetic codes:

- CL Computer Laboratory
- ED Engineering Drawing
- WS Workshop Practice
- ES Environmental Studies
- PC Professional Communication

Further, the first alphabetical code for **HUMANITIES (OPEN ELECTIVES)** will be “**HU**” in place of the above codes.

Numerical Code for a Part(Year) of a Programme

PART(YEAR)	CODE
Prep	0
Part –I	1
Part –II	2
Part –III	3
Part –IV	4
Part –V	5*
Part –VI	6*

* These codes shall also apply to Part-I and II, respectively, of 2-Year PG Programmes in Engineering/Pharmaceutics.

ANNEXURE-7
Grading of Academic Performance

Academic Performance	Grade	Grade Point
Outstanding	S	10
Excellent	A	09
Very Good	B	08
Good	C	07
Fair	D	06
Satisfactory	E	05
Pass	P	04
Failed	F	00
Incomplete	I	00

ANNEXURE-8
Award of Grades Based on Absolute Marks System

Award of grades to a student based on absolute marks secured by him/her out of 100 shall be made as follows:

Marks Range (out of 100)	Grade
100-91	S
90-81	A
80-71	B
70-61	C
60-51	D
50-41	E
40-00	F

ANNEXURE-9

Statistical Methods for the Award of Grades

For the award of grades in a course, all component-wise evaluation shall be done in absolute marks. The marks of different components viz., Periodical Tests, End-Semester-Examination (ESE), Course Work Sessionals (CWS), Practical Sessionals (PS) etc. would be reduced to relative weightage of each component as approved by the FET/Academic Council and added. Marks so obtained shall be out of 100 and the same would be converted to grades following the guidelines given below:

The statistical method shall invariably be used with marginal adjustment for natural cut-off. The mean (\bar{X}) and the standard deviation (σ) of marks obtained by all the students in a course shall be calculated and the grades shall be awarded to a student depending upon the marks and the mean and the standard deviation as per table given below.

Awards of Grade Using Statistical Method

Lower Range of Marks	Grade	Upper Range of Marks
$\bar{X} + 1.5 \sigma \leq$	S	
$\bar{X} + 0.75 \sigma \leq$	A	$< \bar{X} + 1.5 \sigma$
$\bar{X} \leq$	B	$< \bar{X} + 0.75 \sigma$
$\bar{X} - 0.75 \sigma \leq$	C	$< \bar{X}$
$\bar{X} - 1.5 \sigma \leq$	D	$< \bar{X} - 0.75 \sigma$
$\bar{X} - 2.25 \sigma \leq$	E	$< \bar{X} - 1.5 \sigma$
	P/F*	$< \bar{X} - 2.25 \sigma$

* If marks awarded is 41% or more grade P will be awarded

ANNEXURE-10

General Guidelines for Award of Grades

The following are the general guidelines for the award of grades:-

- (i) All evaluations of different components of a course shall be done in absolute marks for each student.
- (ii) The marks of various components shall be reduced to approved weightage as decided by the FET and indicated in the Scheme of Teaching and Examination and added to get total marks secured on a 100 points scale. The rounding off shall be done on the higher side.
- (iii) The grades shall be awarded on the basis of natural cut-off in the absolute marks (Annexure 8).
- (iv) In the Statistical Methods for the Award of Grades, no student having 41 % or more marks would be awarded Fail Grade 'F'. Such student shall be awarded P grade.

ADDENDUM-1

Typical combinations of contact hrs / week and the corresponding credits

I Semester:

	(Contact hrs / week)				(Corresponding credits)			
Theory (Compulsory)	13	14	15	16	13	14	15	16
Computer Programming and Graphics	4	4	4	4	4	4	4	4
Practicals (with 3/6 contact hrs/week)	9	9	6	6	6	6	4	4
Computer Lab	3	3	3	3	2	2	2	2
Total	29	30	28	29	25	26	25	26

II Semester:

	(Contact hrs / week)				(Corresponding credits)			
Theory (Compulsory)	10	11	12	13	10	11	12	13
Environmental Studies	4	4	4	4	4	4	4	4
Professional Writing	3	3	3	3	3	3	3	3
Practicals (with 3/6 contact hrs/week)	12	12	9	9	8	8	6	6
Total	29	30	28	29	25	26	25	26

Permissible combinations of 3- and 4-credit theory subjects in I and II Semesters:

- If 6 subjects are offered: $(5 \times 3\text{cr}) + (1 \times 4\text{cr}) = 19$ credits
 $(4 \times 3\text{cr}) + (2 \times 4\text{cr}) = 20$ credits
- If 5 subjects are offered: $(3 \times 3\text{cr}) + (2 \times 4\text{cr}) = 17$ credits
 $(2 \times 3\text{cr}) + (3 \times 4\text{cr}) = 18$ credits

III and IV Semesters:

	(Contact hrs / week)						(Corresponding credits)					
Theory	17	18	18	19	20	20	17	18	18	19	20	20
Practicals	12	12	9	9	9	6	8	8	6	6	6	4
Total	29	30	27	28	29	26	25	26	24	25	26	24

Permissible combinations of 3- and 4-credit theory subjects in III and IV-Semesters:

- If 6 subjects are offered: $(6 \times 3\text{cr}) = 18$ credits
 $(5 \times 3\text{cr}) + (1 \times 4\text{cr}) = 19$ credits
 $(4 \times 3\text{cr}) + (2 \times 4\text{cr}) = 20$ credits
- If 5 subjects are offered: $(3 \times 3\text{cr}) + (2 \times 4\text{cr}) = 17$ credits

V and VI Semesters:

	(Contact hrs / week)						(Corresponding credits)					
Theory	17	18	18	19	20	20	17	18	18	19	20	20
Practicals	12	12	9	9	9	6	8	8	6	6	6	4
Total	29	30	27	28	29	26	25	26	24	25	26	24

Permissible combinations of 3- and 4-credit theory subjects in V and VI Semesters:

If 6 subjects are offered: $(6 \times 3\text{cr}) = 18$ credits
 $(5 \times 3\text{cr}) + (1 \times 4\text{cr}) = 19$ credits
 $(4 \times 3\text{cr}) + (2 \times 4\text{cr}) = 20$ credits

If 5 subjects are offered: $(3 \times 3\text{cr}) + (2 \times 4\text{cr}) = 17$ credits

VII Semester

	(Contact hrs / week)				(Corresponding credits)			
Theory (Compulsory)	9	10	11	12	9	10	11	12
Elective	3	3	3	3	3	3	3	3
Practicals	6	6	3	3	4	4	2	2
Project	3	3	3	3	2	2	2	2
Seminar	3	3	3	3	2	2	2	2
Training/Tour	--	--	--	--	2	2	2	2
Total	24	25	23	24	22	23	22	23

VIII Semester

	(Contact hrs / week)			(Corresponding credits)		
Theory (Compulsory + Elective)	12	13	14	12	13	14
Practicals	6	3	3	4	2	2
Project	9	9	9	6	6	6
Comprehensive Viva-Voce	--	--	--	2	2	2
Total	27	25	26	24	23	24

Permissible combinations of 3- and 4-credit theory VII Semester subjects:

If 5 subjects are offered: $(5 \times 3\text{cr}) = 15$ credits

If 4 subjects are offered: $(4 \times 3\text{cr}) = 12$ credits
 $(3 \times 3\text{cr}) + (1 \times 4\text{cr}) = 13$ credits
 $(2 \times 3\text{cr}) + (2 \times 4\text{cr}) = 14$ credits

Permissible combinations of 3- and 4-credit theory VIII Semester subjects:

$(4 \times 3\text{cr}) = 12$ credits
 $(3 \times 3\text{cr}) + (1 \times 4\text{cr}) = 13$ credits
 $(2 \times 3\text{cr}) + (2 \times 4\text{cr}) = 14$ credits

ADDENDUM-2

Credits vis-à-vis Contact Hours

(a) Theory Subjects — The same credits as the number of contact hours per week, e.g., subjects with 3 contact hrs / week shall have 3 credits.

(b) Practical Subjects —

Subjects with 9 contact hrs / week shall have	6 credits
6 contact hrs / week shall have	4 credits
5/4 contact hrs / week shall have	3 credits
3 contact hrs / week shall have	2 credits
2/1 contact hrs / week shall have	1 credit