Ordinances
For
Bachelor Programmes

(B Tech/B Arch/Dual Degree)

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राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर

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8.   EVALUATION AND GRADING SYSTEM FOR BACHELOR PROGRAMME

The performance of the student is evaluated through a series of examinations and tests that are scheduled during the academic semester for a given course. Grading is the process to evaluate each individual student's performance and learning by applying standardized measurements of varying levels of achievement in a course. NIT Hamirpur assign letters grade in each course.

8.1   Evaluation System

The evaluation of students in a particular course shall be based on his/her performance in Continuous Semester Assessment (tutorials, assignments, class test, quizzes, laboratory work, viva, etc.), Mid Semester Examination, and End Semester Examination. The complete transparency shall be maintained in evaluation system. The evaluation of answer sheets of Mid Semester Examination, quizzes and class tests, and home assignments shall be done within reasonable time and shown to the students. The answer sheets of the End Semester Examination will also be shown to the students after evaluation within reasonable time as per the Schedule of Academic Calendar. Similar practices shall also be followed during supplementary examination.

For each course, there will be a course coordinator appointed by Head of respective Department. The course coordinator shall be responsible for setting the question paper, maintaining its secrecy, evaluating and awarding the grades. For the courses, where more than one faculty members are involved in teaching, one of them shall be appointed as course coordinator by Head of respective Department but question paper will be set by course coordinator in consultation with associated faculty members.

8.1.1 Evaluation of Theory/Practical/Drawing/Engineering Workshop/ Programming & Coding Skills/ Studio Courses

The weightages of various components for award of Grades in Theory/Practical/Drawing/Engineering Workshop/Programming & Coding Skills /Studio Courses shall be as under:

A.   Evaluation of Courses offered for B Tech/Dual Degree programmes

There are varieties of courses which are offered to B Tech/Dual degree programme and their weightages of various components for award of Grades shall be as under

- **Courses having Lectures (Theory Courses)**

SN	Component	Weightage
1.	Continuous Semester Assessment (Based on performance in assignments/quizzes/tests/tutorials, etc.)	20%
2.	Mid Semester Examination	30% (1½ Hours)
3.	End Semester Examination	50% (03 Hours)

- **Courses having Practical's**

SN	Component	Weightage
1.	Continuous Semester Assessment (Based on quantity and quality of experiments/jobs, skills in handling equipment, performance in viva/tests, accuracy of outcomes/features, etc.)	60%
2.	End Semester Examination (Performance in practical/job/test/quiz/viva, etc.)	40%

- **Courses of Engineering Workshop/Engineering Graphics/Programming &Coding Skills**

SN	Component	Weightage
Continuous Evaluation		
1.	Continuous Semester Assessment (Based on quantity and quality of experiments/jobs/drawings, skills in handling equipment, performance in viva/tests, accuracy of outcomes/features, etc.)	60%
End Semester Evaluation		
2.	Write up	20%
3.	End Semester Examination (Based on quality of job/drawing/project/coding skills)	20%

B. Evaluation of Courses offered for B Arch Degree programme

There are numerous courses which are offered to B Arch degree programme and their weightages of various components for award of Grades shall be as under:

- **Courses having Lectures and Tutorials (Theory Courses)**

SN	Component	Weightage
1.	Continuous Semester Assessment (Based on performance in assignments/quizzes/tests/tutorials, etc.)	30%
2.	Mid Semester Examination	20% (1½ Hours)
3.	End Semester Examination	50% (03 Hours)

- **Courses having Lectures and Practicals**

SN	Theory Component (Overall Weightage: 80%)		Practical Component (Overall Weightage: 20%)	
1.	Continuous Semester Assessment (Based on performance in assignments/quizzes/ tests/tutorials, etc.)	30%	Continuous Semester Assessment (Based on quantity and quality of experiments/jobs, skills in handling equipment, performance in viva/tests, accuracy of outcomes/features, etc.)	50%
2.	Mid Semester Examination	20% (1½ Hours)	End Semester Examination (Performance in practical/job/test/quiz/viva, etc.)	50%
3.	End Semester Examination	50% (03 Hours)		

- **Courses having Practicals/Studios(Drawing Courses)/Workshops/Office Training/Dissertation**

SN	Component	Weightage
1.	Continuous Semester Assessment (Based on quantity and quality of experiments/jobs, skills in handling equipment, performance in viva/tests, accuracy of outcomes/features/design problems, etc.)	50%
2.	End Semester Examination (Performance in workshop activity, practical/job/test/quiz/viva/Portfolio, Studio work, etc.)	50%

- **Architecture Design Thesis Course**

  The weightages of various components for award of Grades in the Architecture Design Thesis Course shall be as under:

S No	Particulars	Weightage	Remarks
1.	Mid Semester Evaluation	30%	To be awarded by the Committee
2.	End Semester Evaluation	50%	To be awarded by the Committee
3.	Continuous Semester Assessment	20%	To be awarded by the Supervisor

8.1.2 Evaluation of Project Work

The Project shall normally be evaluated on the basis of quality of work carried out, the reports submitted and written as per the guidelines for project Report Writing (Annexure: RW), contents and presentation. Project Coordinator, appointed by HoD, shall act as Coordinator of all project Groups. Formation of Project groups shall be done by the Project Coordinator along with allotment of guide(s) to each group. Each Project Group shall be evaluated twice i.e. during Mid Semester and End Semester by a Committee as per the schedule mentioned in Academic Calendar.

The Committee is to be constituted by the concerned HoD for the evaluation of projects work in consultation with DBPC of the Department as per the following composition:

1.	HoD or his/her nominee	Chairperson
2.	Faculty members with different streams from the Department (minimum two)	Members
3.	One Faculty Member from other Department	Member
4.	Project Coordinator	Member Secretary

The letter grades need to be uploaded by the Project Coordinator and copy to be sent to the Academic Section. The evaluation shall be made as per the following criteria:

S No	Particulars	Weightage	Remarks
1.	Mid Semester Evaluation	30%	To be awarded by the Committee
2.	End Semester Evaluation	40%	To be awarded by the Committee
3.	Continuous Semester Assessment	30%	To be awarded by the Supervisor

Successful demonstration of hardware project in general will entitle a group for better marks/grade

8.1.3 Summer/Industrial Training/Onsite/Office Training/Dissertation/Architecture Design Thesis

All the Bachelor degree programme students shall get real-world work experience and an opportunity to learn and get some practical work experience in a specific field. During training students have to gain real-world experience in their chosen field of study and to apply what they have learned in the classroom to a real-world setting. Through training the students will be able to have a hands-on-experience and develop professional skills for applying their knowledge on the live projects. The training can be obtained within India or abroad.

A. Evaluation of Summer/Industrial Training for B Tech/Dual Degree students

B Tech/Dual Degree students are required to undergo 4-6 weeks of Summer/Industrial/Onsite Training after the end of sixth semester (during summer vacations) within India or abroad. The evaluation and award of grades for Summer/Industrial/Onsite training shall be done by Committee(s) constituted by HoD consisting of:

1.	HoD or his/her nominee	Chairperson
2.	Faculty Members from the Department (minimum two)	Members
3.	OIC (Training & Placement of the department)	Convener

The slots for evaluation/presentation for the Summer/Industrial Training undertaken by the students shall be mentioned in the Time Table of the concerned Department in the semester immediately following the Training. The Evaluation Committee(s) shall evaluate the students during these slots.

Whereas, interested B Tech/Dual Degree students may also undergo Industrial Training/Internship after second/fourth semester (during summer vacations) for which No Objection Certificate may be obtained from the concerned HoD. However, there shall not be any evaluation for this Industrial Training/Internship and also it will not be mentioned in the Grade Report Card of the student.

B. Evaluation of Industrial/Onsite/Office Training/Dissertation/Architecture Design Thesis for B Arch students

B Arch students are required to undergo one semester Office Training during 8th/9th semester for a period of six months/one semester in the office of an Architect or an organization operating in an allied field of practice or research, duly approved by the institution, under the mentorship of an architect having experience of at least 5 years The training can be done outside the institute but within India or abroad as per CoA regulations and approved scheme.

Training in foreign country shall be done under the Registered Architect of that country and to be approved and monitored by the Head of the University or Institution.

The evaluation and award of grades for Industrial/Onsite/Office Training shall be done by Evaluation Committee(s) constituted by HoD consisting of:

1.	HoD or his/her nominee	Chairperson
2.	Faculty Members from the Department (minimum two)	Members
3.	OIC (Training & Placement of the department)	Convener

Similarly the evaluation and award of grades for Dissertation shall be done by Evaluation Committee(s) constituted by HoD consisting of:

1.	HoD or his/her nominee	Chairperson
2.	Faculty Members from the Department (minimum two)	Member
3.	Supervisor/Guide	Member
4.	Dissertation Coordinator	Convener

The course Architecture Design Thesis shall be evaluated twice i.e. during Mid Semester and End Semester by the Committee/Jury as per the schedule mentioned in Academic Calendar. The Mid Semester evaluation shall be carried out by a committee to be constituted by the concerned HoD in consultation with DBPC of the Department as per the following composition:

1.	HoD or his/her nominee	Chairperson
2.	Faculty members from the Department	Member
3.	Faculty Member from other Department (Nominated by Dean (Academic))	Member
4.	Supervisor/Guide	member
5.	Thesis Coordinator	Member Secretary

Whereas the End semester evaluation shall be carried out by a jury in which the member from other department will be replaced by an expert from outside institute. The external examiner shall be appointed by the Chairman, Senate out of a panel of experts (minimum five) submitted by the HoD in consultation with Convener, DBPC.

The letter grades need to be uploaded by the Thesis Coordinator and copy to be sent to the Academic Section.

The slots for evaluation/presentation for the Industrial/Onsite/Office Training/Dissertation, undertaken by students, shall be mentioned in the Time Table of the concerned Department in the semester immediately following the Training. The Evaluation Committee(s) shall evaluate the students during these slots. Whereas, interested B Arch Degree students may also undergo Industrial Training/Internship after fourth/sixth semester (during summer vacations) for which No Objection Certificate may be obtained from the concerned HoD. However, there shall not be any evaluation for this Industrial Training/Internship and also it will not be mentioned in the Grade Report Card of the student.

8.1.4 Evaluation of General Proficiency

General Proficiency shall be based on the participation, performance in various co-curricular activities and conduct of the student during the entire duration of the programme. The holistic evaluation of each student and award of grades for General Proficiency shall be done by Evaluation Committee(s) constituted by HoD of the concerned Department as per the following composition:

1.	HoD or his/her nominee	Chairperson
2.	Faculty members from the Department (minimum two)	Members
3.	OIC (Departmental Society)	Convener

OIC (Departmental Society) shall submit the final grades online as well as forward an authenticated copy of these grades to the HoD for onward transmission to Academic Section as per the schedule mentioned in Academic Calendar.

8.2 Grading System

The grading system is designed to provide a holistic assessment of a student's performance based on both formative and summative assessments. The Institute follows absolute grading system. A student shall be awarded a letter grade in each course he/she is registered for, indicating his/her overall performance in that course. There is separate grading scheme for the students of B Arch in order to satisfy the norms issued by the CoA.

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

1. All evaluations of different components of a course announced in the course plan shall be done in terms of marks for each student
2. The marks of various components shall be added to get total marks secured on a 100-point scale
3. For any course, the respective table will be used to award grades corresponding to the secured marks
4. A student, who does not appear in the End Semester Examination for any reason, shall be awarded F grade irrespective of his/her performance in the Internal Assessment
5. A student, who fail to score at least 30% marks in the End Semester Theory Examination shall be awarded F grade irrespective of his/her overall score in the course

The concerned Course Instructor/coordinator shall submit the final grades online as well as forward an authenticated copy of these grades to the HoD for onward transmission to Academic Section as per the schedule mentioned in Academic Calendar.

A. Grading system for B Tech/Dual Degree Students

There are eight letter grades: A, AB, B, BC, C, CD, D and F. The correspondence between letter grades, grade points (on a 10 point scale), percentage marks and academic performance is given below:

Letter Grade	A	AB	B	BC	C	CD	D	F
Grade Point	10	9	8	7	6	5	4	0
Marks %	≥85	<85 &≥75	<75 &≥65	<65&≥55	<55 &≥50	<50 &≥45	<45 &≥40	<40
Academic Performance	Outstanding	Excellent	Very Good	Good	Above Average	Average	Marginal	Fail

B. Grading system for B Arch Degree Students

There are seven letter grades: A, AB, B, BC, C CD and F. The correspondence between letter grades, grade points (on a 10 point scale), percentage marks and academic performance is given below:

Letter Grade	A	AB	B	BC	C	CD	F
Grade Point	10	9	8	7	6	5	0
Marks %	≥85	<85 &≥75	<75 &≥65	<65&≥55	<55 &≥50	<50 &≥45	<45
Academic Performance	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail

As per CoA regulations the pass percentage in each course should not be less than 45%.

8.3   Grade Point Index (GPI)

The SGPI (Semester Grade Point Index) is an indicator of the overall academic performance of a student in all the courses he/she has registered during a given semester. For example, if the grades awarded to a student are G_1, G_2,..., G_m in courses (say, m) with corresponding credits C_1, C_2,..., C_m, the SGPI is given by

$$\text{SGPI} = \frac{C_1 G_1 + C_2 G_2 + ... + C_m G_m}{C_1 + C_2 + ... + C_m}$$

Similarly, the CGPI (Cumulative Grade Point Index) indicates the overall academic performance of a student in all the courses registered up to and including the latest completed semester/supplementary examination. It is computed in the same manner as the SGPI, considering all the courses (say, n), and is given by

$$\text{CGPI} = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

In case of a specific query by students/employers/others regarding conversion of CGPI into percentage marks, the formula "% Marks = 10×(CGPI)" will be adopted for notional conversion. However, the Institute shall not issue any separate certificate/document in this regard.

8.4   Improvement in CGPI

A student who has passed all the requisite courses of a programme but fails to score minimum requisite CGPI for the award of degree, may be allowed to improve, on case to case basis with the approval of Chairman Senate provided the course is running in the Semester. The Dual Degree Students may be allowed to improve the CGPI in the 9th/10th Semester. For improvement in CGPI the students shall have to:

1. appear in Supplementary Examination in the course(s) where B Tech/Dual degree student has scored D/F grade(s), provided he/she is allowed to continue in the programme as per Clauses of Section 9. Marks in Continuous Semester Assessment and Mid Semester Examination shall remain same as per the previous record.

2. Continuous Semester Assessment and Mid Semester Examination of the course (theory, practical, minor/major project, etc.), where B Tech/Dual degree student has scored D/F grade(s) and has less than 50% marks in these components. However, the student will only be allowed to register after completion of minimum residential requirement given in Clause 9.2. This registration will be allowed alongwith students of regular semester at that point of time where this course is floated (odd semester or even semester). The requests of the student to resolve any clash in Time Table and allotment of hostel will not be entertained. Marks secured by the student in Continuous Semester Assessment and End Semester Examination during this semester registration will be counted for awarding the grade.

8.5   Supplementary Examination

There shall be a Supplementary Examination every year during June-July as per the schedule mentioned in Academic Calendar. The weightage of Supplementary Examination will be same as for End Semester Examination of respective course. Following are the eligibility criteria to appear in Supplementary Examination:

1. A student who had registered for a course during the regular semester and who got F grade after appearing in the End Semester Examination.
2. A student who had registered for a course during the regular semester, but, could not appear in the End Semester Examination.