



“Examination Ordinance”
DIT University, Dehradun

(To be read in conjunction with Academic Ordinances, DIT University, Dehradun)

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DEFINITIONS

Definitions of various terms used in the Ordinances, unless the context otherwise requires, are given below:

| | | |
|---|------------------|--|
| a | ACT | The DIT University Act, 2012 |
| b | BOE | The Board of Examinations of the University |
| c | BOG | The Board of Governors of the University |
| d | COE | The Controller of Examinations of the University |
| e | HoD | The Head of the respective Department/ Centre/ Unit of the University. |
| f | Moderation Board | The Moderation Board of the concerned Activity |
| g | PCI | The Pharmacy Council of India. |
| h | PVC | The Pro Vice Chancellor of the University |
| i | Registrar | The Registrar of the University. |
| j | Statutes | The Statutes of the DIT University. |
| k | ERP | Enterprise Resource Planning |
| l | UFM | Unfair Means |
| m | VC | The Vice Chancellor of the University. |

1. References

| Academic Ordinance, DIT University, Dehradun | | |
|---|-------------------|---|
| S. No | Clause No. | Heading |
| 1 | 1.3 | Duration of the Programmes |
| 2 | 1.8 | Table Showing Codes for Programmes, Courses & Branches |
| 3 | 1.9 | Examination Fees |
| 4 | 1.14 | Industrial Training / Project {B.Tech, B. Tech (Lateral Entry), B.Arch, B.Des, MCA and MBA (applicable only with trimester system in place)} |
| 5 | 2 | Registration |
| 6 | 2.5 | Registration Procedure |
| 7 | 4 | Continuous System of Evaluation |
| 8 | 5 | Examination Ordinances |
| 9 | 5.6 | Class Participation Requirement for Permission to Appear in Examinations |
| 10 | 5.7 | Back paper and Grade Improvement Examination |
| 11 | 5.7.2 | Conditions for opting back/improvement subjects |
| 12 | 5.7.2.1 | Eligible students for Summer Term |
| 13 | 5.7.2.2 | Mandatory conditions for Back Paper/Improvement – “with Class Option” during ODD/EVEN/Trimester Semester (Also termed as re-booking/re- registration in the subject) |
| 14 | 5.7.3 | Provision for Auxiliary Examination (shall be conducted in without class mode only) <ul style="list-style-type: none">• for Semester Pattern• for Trimester pattern |
| 15 | 5.7.3.1 | Eligibility for Auxiliary Examination |
| 16 | 5.7.4 | The following credit/non-credit subjects shall be offered during ODD/EVEN/Trimester / Summer Term. These subjects will be over and above of total limit of Subjects/Credit as mentioned in clause 5.7.2 (No fee to be charged for such subjects.) |
| 17 | 5.8 | Project Work for Diploma and Undergraduate Programmes |
| 18 | 5.9 | Dissertation/Training Report for Post Graduate Programmes |
| 19 | 6 | Moderation of Question Papers |
| 20 | 7 | Rules for Award of grades for All Programmes except Pharmacy |
| 21 | 8 | Semester/Trimester and Cumulative Grade Point Average (TGPA/SGPA/CGPA) |

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|----|------|--|
| 22 | 9 | Withholding of the Grade Card |
| 23 | 10 | Promotion to Next Year of Study |
| 24 | 10.3 | Academic Probation |
| 25 | 11 | Not Fit for Programme (NFP) / Provision for Slow Learners for academic progression |
| 26 | 12 | Unfair Means |
| 27 | 13 | Appeals and Grievances Committee |
| 28 | 14 | Special Clause |
| 29 | 15 | Award of Degrees/Diploma/Certificate |
| 30 | 16 | Re-Admission |
| 31 | 17 | Cancellation of Admission |

1.1 Process Flowchart: Registration to Award of Degree – Annexure - A

2. Structure, Role & Function of COE Office

(The Controller of Examinations [Section-19] Clause 2.16 as defined in DIT University Act of 2012)

The Controller of Examinations shall be a full time salaried officer of the University and he shall be

- i. appointed by the Chancellor, with due approval of the Chairman, Board of Governors, on the recommendations of the selection committee consisting of the following:-
 - (a) Vice Chancellor - Chairman
 - (b) One Nominee of the Chairman, Board of Governors - Member
 - (c) One nominee of the Chancellor - Member
- ii. The eligibility criteria, emoluments and other terms and conditions of service attached to the post shall be as laid down in the Ordinances of the University.
- iii. The Selection Committee, alternately, may also recommend a name of one of the Professors of the University as the Controller of Examinations, who has experience in all the matters related to examinations by being a part of examination section, who has demonstrated highest order of confidentiality and integrity, and who is capable of administering the examination related matters.
- iv. The Controller of Examinations shall be the Principal Officer for conducting all examinations of the University and for declaring their results. He shall work directly under the supervision, direction and control of the Vice Chancellor.
- v. When the office of the Controller of Examinations becomes vacant due to death, resignation or otherwise, or if there is a temporary vacancy because of absence due to illness or any other reason, the duties and functions of the Controller of Examinations shall be performed by such other person as the Chancellor, on the recommendation of the Vice Chancellor, shall appoint or authorize, until a new Controller of Examinations is appointed or until the incumbent Controller of Examinations resumes duty.
- vi. The Controller of Examinations shall be the Member Secretary of the Board of Examinations and of Committees constituted by it.

2.1 Subject to the provision of the Statutes, and control of the Vice Chancellor, the Controller of Examinations shall have the following powers and duties, namely:-

- i. To make all necessary arrangements for free, fair, smooth, orderly and timely conduct of all examinations of the University including entrance examinations and declaration of their results;
- ii. To prepare and announce in advance the calendar and scheme of examinations in consultation with the Dean of Academics.
- iii. To appoint paper setters, examiners, evaluators, invigilators, tabulators/ collators, moderators, observers, flying squad, etc., with prior approval of the Vice Chancellor;
- iv. To decide the examination centers and appoint Center-in-Charge(s) with prior approval of the Vice Chancellor;
- v. To arrange inspection of examination centers by a flying squad and observers;
- vi. To arrange for printing of question papers and to maintain secrecy;
- vii. To ensure timely printing and supply of answer books, receive back the unused answer books from the center's and maintain proper record of the same;

- viii. To co-ordinate with Deans of Faculty/ School and the Principals of Constituent Colleges and Heads of Departments with regard to student enrolment and conduct of examinations;
- ix. To arrange for proper assessment of candidates appearing for examinations and to process results accordingly
- x. To notify results of examinations to the concerned Faculty/ School, the Constituent College and Department and also display the results in the public domain;
- xi. To maintain a data base of student performance in examinations;
- xii. To forward names of candidates to the Registrar for conferment of degrees, diplomas, certificates, etc. except honorary degrees;
- xiii. To act as custodian of all records related to conduct of examinations and declaration of results;
- xiv. To postpone or cancel examinations with the prior approval of the Vice Chancellor in the event of malpractices or if the circumstances so warrant, and to take or recommend disciplinary action, as the case may be, or recommend initiation of any civil or criminal proceedings against any person or a group of persons or a college or an Institution alleged to have committed such malpractices;
- xv. To recommend disciplinary action where necessary, against candidates, paper setters, examiners, moderators or any other persons connected with examinations and found guilty of malpractices in relation to the examinations;
- xvi. To review and evaluate, from time to time, results of the University examinations and forward reports thereon to the Vice Chancellor;
- xvii. To take necessary steps for continuous examination reforms so as to keep updating the existing Ordinances relating to University examinations and to propose new Ordinances in this regard;
- xviii. To counter-sign and approve various TA/DA and remuneration bills in respect of the examiner, supervisor, invigilator, paper setter, tabulator/collator, moderator, observer and any other person appointed for the purpose of confidential works related to the conduct of examinations;
- xix. To prepare and maintain accounts for secret funds, get the same checked and counter-signed from the concerned Authority and keep permanent records for all such confidential transactions or accounts;
- xx. To prepare and maintain minutes of meetings of the Board of Examinations and other Committees constituted by it;
- xxi. To ensure that decisions taken by the Authorities of the University and Committees constituted by them with regard to the examination system are promptly implemented;
- xxii. To superintend the task of all subordinate employees and to distribute work among them with prior approval of the Vice Chancellor;
- xxiii. To exercise disciplinary control over all employees in the examination section; and
- xxiv. To exercise such other powers and perform such other duties as assigned to him by the Vice Chancellor and other Authorities of the University from time to time including such powers, duties and functions which are imposed on him by the Statutes, the Rules and Ordinances of the University.

3. Registration & Registration Procedure has been amplified under Clause 2 and 2.5 of Academic Ordinance, DIT University

4. Examination Process

4.1 DIT University has the following Examination Systems:

Semester Examination : As per the Academic Ordinance

- Mid Term Examination
- Quizzes
- End Term Examination
- Trimester Examination for MBA
- Semester Examination as per PCI
- Yearly Examination as per PCI for Diploma Courses
- Semester Examination as per COA
- Auxiliary Examination

- Summer Term Examination
- Special Examination
- Others

Examination is conducted for: Regular, Back / Debar with class, Auxiliary.

As per the course structure, the different courses are of following types:

- Only Theory
- Only Lab
- Theory + Lab
- Non Credit or Audit Courses

4.1.2 Evaluation System

i. A - Continuous Evaluation based on marks for:

Non-FFCBCS

- Mid Term Exam
- Lab Assessment (if applicable)
- Class Test
- Quizzes
- Assignment

FFCBCS

- Lab Assessment (if applicable)
- Class Test
- Quizzes
- Assignment
- Open Book Exam
- Project

ii. B -End Term Evaluation

B-Mid Term and End Term Evaluation

iii. Total Evaluation : Sum of A and B

- The student shall register in regular/ back/improvement subject/course as the time of Registration, before the commencement of semester/trimester as per the rule.
- The Student shall register in Auxiliary and Summer Term Subjects/ Courses as per the Eligibility criteria. The Last date of Registration shall be two weeks before the commencement of Examination.

4.1.3 Examination Process can be defined with the help of following sub processes involved:

Pre Examination Process

i. Declaring Exam schedule:

- List of subject wise registered students in Regular/Back/Improvement/auxiliary and summer term is downloaded from ERP/ Academic departments.
- Tentative Exam schedule is prepared and circulated for seeking any input.
- Final Exam Schedule is incorporated after inputs received.

ii. Allocation of Examination Centre's and Seating plan:

- The Examination centers in different building accordance with Exam schedule are allocated.
- Rooms in different Centre's as per strength of students and capacity of rooms are allocated
- The Room wise sitting plan is prepared.
- Centre Examination duties are assigned to various officials in Centre's.
- Master seating plan is prepared accordingly.

iii. Preparation of Attendance List:

- List of subject wise registered students in Regular/Back/Improvement/auxiliary and summer term is downloaded from ERP/ Academic departments.
- The list of debarred students is downloaded academic department/ERP
- Based upon above two points, the attendance sheets are prepared excluding debarred students.

iv. Preparation of Invigilation Chart:

- The authenticated list of faculty/staff members is received from HR Department.

- b. The invigilation duty Chart is prepared depending upon the seating plan of students and total room engaged to conduct the examination
- v. **Setting up of Question papers:**
 - a. Every Course/Subject Coordinator shall submit two sets of question paper for Mid Term and End Term Examination. (**Annexure- B**), (**Annexure - C**)
 - b. The Question papers are received from Academic department Heads in strict confidence in soft copy as per the standard template
 - c. The Question papers are sent to Moderation Board, nominated by the Vice Chancellor.
 - d. The Question papers are received back to COE office after moderation.
 - e. Final copy of Question paper is proofed before mass printing.
 - f. Printing of required number of Question papers and packaging is done at COE office.

4.1.4 During Examination :

- i. Preparation of Back paper Attendance List on daily basis.
- ii. To prepare the packets of Q. papers for center's as per sitting plan Room wise
- iii. To arrange the Blank answer sheet, Graph Papers, Log table etc.
- iv. **The process of Conducting Exam:**
 - a. Distribution of Centre wise/Room Wise Packets consisting Question Papers, Answer Booklets and Attendance Sheets to (Half an Hour before) Centre Superintendent.
 - b. Invigilators Report to Control Room of different center's (20 Min. before the Schedule Time) where room wise duties assign by Centre superintendent.
 - c. In Exam hall invigilators shall also check verify ID Cards, Hall Ticket, Distribute Answer Booklets, and Question Papers. Verification of Details entered by students in Answer Booklet Signature of students on Attendance Sheets is also done at invigilator's end.
 - d. Centre Superintendents visit the different rooms of respective Centre's for ensuring the proper conduct of examination
 - e. After finishing the Examination, Invigilators Collect, verify and arrange the Answer Booklet as per the room Attendance sheets.
 - f. The Centre Superintendents validate the Answer Booklets received from invigilators.
 - g. To collect the Answer Booklets packets at COE record room as per Attendance Sheets received from different Centre's.

4.1.5 Post Examination:

- i. Designate a place for evaluation Centre.
- ii. Course Wise Bundling and sending of Answer Booklets to respective HOD'S OFFICE
- iii. Issuing of Bundles to respective course coordinator
- iv. Checking of Solution Set with Marking Scheme
- v. Setting up of Evaluation Panel
- vi. Supervision of Evaluation of Answer Booklets
- vii. Instruction to course coordinator for Preparation of Award list in soft and hard copy
- viii. Display of Evaluated Booklet to Students
- ix. Submission of Award Lists & Answer Booklets to COE Office
- x. Stacking of Answer Booklets in Confidential Room

4.1.6 Result declaration

- i. To ensure the entry of marks by faculty members in ERP for regular as well as for back papers.
- ii. To resolve the discrepancy, if any, related to marks entry.
- iii. To collect the grade cut off prepared by faculty members/course coordinator.
- iv. To send the grade cut off received to the Moderation committee, (Decided by Pro Vice Chancellor) on daily basis.
- v. To upload the grade cut off on ERP to generate the grade of a particular subject.
- vi. To prepare the TR Sheet by Registrar office and made a copy available to COE Office.

- vii. To declare the result/s on ERP, of a particular programme/s for which entry of marks/grade cut off has been done completely.
- viii. printing of Grade Sheet by Registrar Office

4.1.7 Post Result declaration

- i. To resolve the discrepancy reported by students related to Grades/ Marks.(This process is on-going process)
- ii. **Disposal of obsolete Answer Sheets:** Time period to dispose the answer sheets is as follows:
 - a. One Year for Mid Term/ Practical Answer Booklet.
 - b. Five Year for End Term Answer Booklet.
 - c. Specific/ Exceptional Case on order.

After the above period the record of Answer Booklet shall be disposed as per orders on the subject.

4.2 Constitution of Moderation Board for the moderation of Question Papers of Examination

The following shall be the constitution of Moderation Board for the moderation of Question Papers of Examination conducted by the COE office:

| | |
|--|---------------------------|
| One Senior Professor | Chairman of the committee |
| Head of the Department (Each department) | Member |
| One Senior Faculty from each Department | Member |

The members of committee shall be nominated by Vice Chancellor and the tenure of the committee shall be one complete session as per the Academic Calendar of University.

4.3 Role and Responsibilities of Moderation Board Committee:

- i. The Chairman of Moderation Board shall coordinate the Moderation of Question Papers fifteen days before the commencement of all Examination. The COE office will supply the question papers to the Moderation Board in soft copy.
- ii. The Chairman of Moderation Board shall prepare the schedule of moderation such that all the Moderated Question Papers must reach to the COE office one week before the Commencement of Examination.
- iii. **The Moderation Committee shall go through the Question Papers to check:**
 - a. Repetition of questions.
 - b. Marks Distribution
 - c. Clarity in question paper
 - d. Name of Subject/Course, Subject/Course Code, Year, Semester, Maximum Marks, Duration etc.
 - e. Syllabus Covered.
 - f. Any other.

5. Evaluation Process and Result Declaration

5.1 Theory Courses

- i. The Evaluation of Mid Term Examination shall be within the Departments whereas the Evaluation of End Term Examination answer booklet shall be done centralized, within a restricted premise allocated by COE.
- ii. All departments can start the evaluation for the answer booklet of Mid Term/End Term Examinations from very next day of starting the examination.
- iii. They shall collect the copies from COE office/Dispatch Center from very next day of starting the examination

- iv. Within a maximum period of seven day, after showing these answer booklets to the students, the answer booklet will be submitted back to COE office with award sheets.
- v. If there is any query and issue from the student regarding their marks, Examiner resolve all issue and query and upload correct marks in ERP.
- vi. After Evaluation of the answer booklets, the marks of End Term Examinations need to upload in ERP. After making all the entries of marks, including End Term Examinations as well as continuous assessment, the concern faculty member/course coordinator will lock the marks and save the PDF file for the same.
- vii. After Evaluation process all respective subject teacher shall submit Grade Cut off In Exam Cell.
- viii. Then Grade Sheet will be moderated by moderation board nominated by Vice-Chancellor.
- ix. After moderation, the Grades will be uploaded in ERP.
- x. After updating of all grades the result will be presented in BOE meeting and after duly approval of BOE, the result will be declared.
- xi. The notification of declaration of result shall be done by Registrar office.
- xii. All result Tabulation Registers (TRs) and their updation, further shall be maintained by Registrar Office.

5.2 Marks Evaluation & Distribution Scheme

| S. No | Course | Examination/ Evaluation Scheme | Scheme of Examination/Evaluation |
|-------|--|---|--|
| i. | Theory subject and Theory & Lab subjects | Quiz 1 and 2 , Class Test, Assignments, Lab assessment (If any) Mid Term Examination (120 Min) | Objective paper is set for Quiz 1 and 2 for 10 marks The subjective paper shall contain 5 questions of equal weightage of 10 marks. |
| | | End Examination (3 Hrs) | End examination of theory subjects shall have the following pattern: i. There shall be 5 questions and all questions are compulsory. ii. Question 1 and 2 shall contain 4 compulsory short answer questions for a total of 40 marks such that each question carries 5 marks. There shall be 4 short answer questions from each unit. iii. In each of the questions from 3 to 5, there shall be either/or type three questions of 10 marks each. Student shall answer any two of them. |
| ii. | Practical subjects | Continuous evaluation | Day-to-day work in the laboratory shall be evaluated by the concerned laboratory teacher based on the regularity/record/viva. The end examination shall be conducted by the concerned laboratory teacher and senior expert in the same subject of the department. |
| | | End examination | The end examination shall be conducted by the concerned laboratory teacher and senior expert in the same subject of the department. |
| iii. | Audit Courses | Internal Examination | There shall be no external examination. |
| | | Day-to-day work | Day-to-day work shall be evaluated by the concerned subject teacher based on the reports/submissions prepared in the class |

| | | | |
|-------|--|---------------------------|--|
| iv. | Design and/or drawing | | The sum of day to day evaluation and the internal test marks will be the final sessional marks for the subject. |
| | | End Examination | The end examination pattern related to design/drawing is mentioned along with syllabus. |
| v. | Seminar | End examination | The report and the presentation shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. |
| | Comprehensive Viva-Voce | End examination | The Comprehensive viva-voce will be conducted by the committee consisting of Head of the Department and two senior faculty members of the department. |
| vi. | Project Work | Internal Evaluation | The Internal Evaluation shall be made by the departmental committee (Head of the Department and two senior faculty members of the department), on the basis of two seminars given by each student on the topic of his/her project. |
| | | End Term Evaluation | End Semester Examination (Viva-voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the University. |
| vii. | Internship Examination in lieu of 8 th Semester | Final Evaluation | <ul style="list-style-type: none"> a. Student will work on one industrial project in consultation with mentor at Industry and one guide from University. b. University Guide shall be responsible for continuous monitoring of student during the entire duration of Internship. c. Student shall send the progress report, duly signed by the mentor at Industry, to the Guide at University. d. The last date of obtaining NOC for the Industrial Internship shall be two weeks from the commencement of final Semester. After that no NOC shall be issued to the student. e. The Final Presentation/ final Assessment will take place during the End Term Examination. f. The Result will be declared with the Regular Result declaration. g. The pending result based on the delayed assessment shall be declared only after the approval of Vice Chancellor. |
| viii. | Industrial Tour/visits | Audit (Non Credit) Course | Evaluation shall be in terms of Good, Satisfactory and poor. DAA will decide the evaluation after taking the Seminar prepared by the students. |

Note: Marks distribution scheme at **Annexure D**

5.3 Guidelines for Evaluation of Project Work:

Every candidate shall be required to submit thesis or dissertation after taking up a topic approved

- by the Departmental Academic Affair Committee.
- i. **Registration of Project work:** A candidate is permitted to register for the project work in regular Semester only, not in summer term.
 - ii. Departmental Academic Affair Committee consisting of HOD, supervisor and one internal senior expert shall monitor the progress of the project work.
 - iii. The **first phase of the project work** on the project shall be initiated in the fifth semester and **second phase of the project work will be** continued in the sixth semester. The final third phase of project will continued in seventh semester. The duration of the project is for three semesters. The candidate can submit Project thesis with the approval of DAA, only in third phase. Extension of time within the total permissible limit for completing the programme is to be obtained from the Head of the Department.
 - iv. The student must submit status report by giving seminars in three different phases during the project work period. These seminar reports must be approved by the DAA before submission of the Project Report.
 - v. A candidate shall be allowed to submit the project only after obtaining plagiarism report with less than 10%, and then take viva-voce examination of the project. The viva-voce examination may be conducted once in two months for all the candidates submitted during that period.
 - vi. Three copies of the Thesis/Dissertation certified in the prescribed format by the supervisor & HOD shall be presented to the HOD. One copy is to be forwarded to the University and one copy to be sent to the examiner.
 - a. If the report of examiner is favorable viva-voce examination shall be conducted by a board consisting of the supervisor, Head of the Department and examiner who adjudicated the thesis/dissertation. The board shall jointly evaluate the candidates work and grant him/her marks.
 - vii. If the report of the viva-voce is not satisfactory, the candidate will retake the viva-voce examination after three months. If he fails to get a satisfactory report at the second viva-voce examination he will not be eligible for the award of the degree unless the candidate is permitted to revise and resubmit the thesis.

6. **Guidelines for use of ERP by Examiners:**

DIT University is working on ERP system. ERP plays an important and vital role in Examination System from Registration of Students to Declaration of Result. There are some guidelines for the application of ERP in the Examination System, which Faculty/Examiner shall

follow:

- i. Before every Regular/ Back / Improvement / Auxiliary / Summer Term Examination, the on-line Registration of Students in ERP System is must. The Registration shall be done through Registrar office.
- ii. After Registration of student in a particular course/subject a course coordinator/faculty of that subject shall be mapped for that course/subject. The Mapping shall be done through Time Table Coordinator.
- iii. Now the faculty members mapped for the subject/course shall be responsible for the entry of marks in ERP. They shall enter the marks of all continuous assessment/ lab assessment and End Term Examination in ERP as per the SOP decided for the same.
- iv. After Entering all the marks in ERP, concerned faculty/course coordinator will prepare the suggested Grade Cut-off as per the standard Performa (**Annexure: E**)
- v. These Grade Cut-Off shall be moderated by the Moderation Board, constituted by the Vice Chancellor.
- vi. These moderated Grade Cut-Off shall be updated in the ERP by COE Office to prepare the Result.

7. Constitution of Moderation Board for the Grade Cut Off

The following shall be the constitution of Moderation Board for the moderation of Grade Cut off to decide the final grade of Student in a course/Subject.

| | |
|-----------------------|-----------------------------|
| Pro Vice Chancellor | - Chairman of the committee |
| Dean Academics | - Member |
| Two senior Professors | - Members |

The members of committee shall be nominated by Vice Chancellor and the tenure of the committee shall be one complete session as per the Academic Calendar of University.

7.1 Role and Responsibilities of Moderation Board Committee:

- i. The Chairman of Moderation Board shall coordinate the moderation of Grade Cut-Off to decide the final grade of student in a course/subject. The COE office will supply the Grade Cut- Off Template to the Moderation Board.
- ii. **The Moderation Board shall go through the Grade Cut-Off suggested by the concerned faculty/subject coordinator to ensure:**
 - a. Normal Distribution of marks accordingly normal distribution of Grades
 - b. Minimum and maximum Grade Points as per the trends of marks.

After moderation, the Grade Cut-Off Sheet shall be handed over to the COE Office for further processing.

8. Constitution of Unfair Means (UFM) Committee:

The following shall be the Constitution of UFM Committee:

| | |
|-------------------------------------|---------------------------|
| One Senior Professor | Chairman of the committee |
| One faculty member from each School | Member |

The members of committee shall be nominated by Vice Chancellor and the tenure of the committee shall be one complete session as per the Academic Calendar of University.

8.1 Role and Responsibilities of UFM Committee:

- i. The Chairman of UFM Committee shall collect the documents relate to UFM from COE office during the Examination.
- ii. He shall notify the date of UFM Committee meeting through a circular.
- iii. UFM Committee shall inform the students to attend the meeting through SMS/website notification, through Registrar/COE office.
- iv. The UFM committee meeting will be held once during the Examination and another after the Examination.
- v. After hearing from Student UFM Committee shall recommend the punishment for every case and forward it to Pro Vice Chancellor for approval.
- vi. The Decision of Pro Vice Chancellor will be final regarding the cases of UFM.
Types of UFM and detailed guideline of punishments applicable can be refereed from clause 12 of Academic Ordinance.

9. Instructions to Students

- i. Enter examination hall 15 minutes before the scheduled time. Students coming 20 minutes after the commencement of the Mid Term Examination, and 30 minutes after the commencement of End Term Examination, will not be permitted to enter the examination hall or to write the exam.
- ii. Students must write their Roll number and name on the top right side of the question paper before starting to attempt the same.
- iii. Occupy the assigned seats only as per the seating plan issued by COE office.
- iv. **All the students must carry their University Identity Card and Hall Ticket, Without I-card and Hall Ticket, no student will be permitted to enter the Exam Hall.**

- v. Read all instructions carefully written on the answer book & complete all entries of the cover page carefully. It is the responsibility of the student to fill all the particulars in the answer-booklet correctly.
- vi. The students should not carry any other material which may directly or indirectly amount to use of unfair means in the examination.
- vii. The students should bring their own pen, pencil, eraser, general or scientific calculator (if permitted), scale & other materials required for the examination.
- viii. Behave decently & cooperate with the invigilator(s) or members of the flying squad in performing their duties.
- ix. The flying squad is authorized to conduct a thorough physical check of clothes, shoes etc. during the examination.
- x. Murmuring or talking with fellow students comes under UFM rules.
- xi. The candidate shall not leave the exam hall without the permission of the invigilator.
- xii. The candidate shall not write his/her name or leave any identification mark in the answer booklet. Any such act will be deemed to be use of unfair means.
- xiii. Calculation etc. can be done in the answer booklet itself. No separate sheet will be given for the same. Cancelled portion will not be marked by the evaluator.
- xiv. No student shall loiter around stairs, veranda and in front of the exam Hall, after the commencement of the examination.
- xv. Students are not allowed to leave the examination hall without the permission of invigilator even after time is over.
- xvi. Writing anything on the desks or walls of the exam hall/room is also considered as malpractice.
- xvii. **Carrying programmable calculators, electronic gadgets, mobile phones & books into the examination hall is also considered as malpractice.**
- xviii. If a candidate is caught resorting to UFM, he/she will be provided with a new answer booklet to continue his/her examination. Candidates need not repeat answers which he/she had already answered in the first answer booklet.
- xix. Students must not write anything else on the question paper. Any rough work be done on the last page of the answer Booklet.

10. Instructions to Invigilators

- i. The examination will be conducted for in two/three shifts. **Optimized numbers of duties are allotted to an individual faculty.** So maximum co-operation is expected from each faculty/staff of DIT University in performing his/her duty efficiently.
- ii. **No leaves will be sanctioned without the prior permission of Vice Chancellor during the entire period of examination.** In case of unavoidable circumstances, the faculty/staff is required to make alternate arrangements, duly recommended by HOD, and well informed to Center Superintendent and COE, failing which strict action will be taken. All HODs are also requested not to forward/recommend any type of leave without proper substitution.
- iii. Invigilators must adhere to the timings. The reporting time for the respective shifts must be half an hour before the commencement of Examination.
- iv. The invigilators are required to **count the answer sheets before they proceed for examination rooms.** The similar process is to be followed while submitting the answer sheets back.
- v. **Once the invigilator has reported to the examination hall with answer sheets he/she is not supposed to leave the examination room unattended.** In case of unavoidable circumstances he/she must inform the 2nd invigilator on duty. **Roaming in the corridors must be strictly avoided.**
- vi. The **invigilators are requested not to use their mobile phone in the examination hall.** In case of unavoidable circumstances mobile must be on silent mode for the entire duration of examination.
- vii. The invigilators are requested to announce the important instructions to the candidates before the commencement of examination. The **students are not allowed to keep mobile phones/smart watches** or any material which can be categorized under unfair means in the examination hall.

- viii. **The examinee should be instructed not to leave the examination hall for the entire duration.** For natural calls too, the students may be allowed to go only 1 hour after the examination has started and not later than last 30 minutes of the examination. In case the examinee leaves the examination hall, his/her Identity Card must be deposited by the invigilator.
- ix. Entry of the students to the examination hall is to be permitted on production of valid Hall Ticket and I-Card.
- x. Invigilators must check that the entries on the cover page of the answer booklet have been correctly made and ensure that the attendance sheet has been signed by the student after correctly filling his/her enrolment number.
- xi. Answer booklets should be arranged subject and enrolment number wise before their submission to the examination branch through the Centre Superintendent.
- xii. Absentee statement should clearly indicate the students absent in a particular paper.
- xiii. No supplementary sheet will be provided for solving the question paper. Rough work can be carried out on the right hand side margin or at the end of the answer booklet.
- xiv. During the course of examination, the invigilator is expected to move about the place of their duty and not to engage themselves in study or conversation
- xv. All invigilators should familiarize themselves with the guidelines and rules governing the conduct of examinations before the commencement of the examination.
- xvi. As soon as the time allotted is over, the invigilator shall collect the answer-booklets, arrange them in serial order and deposit the same with the faculty authorized by the Centre Superintendent.
- xvii. Invigilators shall bear in mind that examination can be very stressful for students and can occasionally provoke unreasonable or extreme behavior. These situations should be dealt with in a sympathetic and supportive manner which minimizes any adverse effect on other students and maintains sanctity of the examination.
- xviii. No person shall be allowed in an examination room during an examination except the students concerned, invigilators or the persons authorized to do so by the competent authority.
- xix. No change in the question paper can be announced directly by the faculty or invigilators without bring in it to the notice of the controller of examination or the Centre Superintendent.
- xx. **Any student found to have indulged in use of unfair means in the exam shall be immediately issued a new answer booklet by writing UFM across on the title page of the original booklet. All other formalities of getting the forms filled shall be done at the end of the exam of that session to minimize disturbance.**
In case of UFM cases, the matter must be reported to COE Office on priority. The invigilators are requested not to indulge into any kind of argument with the examinee. Invigilators must keep moving in the exam rooms to check any type of unfair means.
- xxi. Invigilators must get the attendance sheet signed personally from the students rather than passing on the same to the students so that they make entries and sign against relevant columns only.
- xxii. The invigilator shall ensure distribution of papers and materials appropriately (according to the seating plan).
- xxiii. The invigilator shall adopt correct procedures in case a candidate falls ill, is distressed or behaves in a way perceived to be misconduct and liaison with the examination control room as necessary.

11. Instructions to Observer and Flying Squad

11.1 Duties of Observers:

- i. The Observer shall take rounds on the floor allotted to him/her to oversee the conduct of the examination on the said floors.
- ii. In case of any query, need for substitute invigilator or any exigency, the Observer shall coordinate between the invigilator and the Centre Superintendent.
- iii. The Observer shall ensure that no student roams outside the examination hall after the commencement of the examination.

11.2 Instructions to Flying Squad:

- i. To ensure that no unauthorized person is appearing in the examination. For this purpose, the members of the flying squad shall check the random attendance of the genuine candidates which is the primary duty of the invigilators assigned in each room.
- ii. To ensure that no books, calculators, mobile phones or any other material except writing board

- and writing material i.e. pen, pencil etc. is being carried by candidates into the examination hall.
- iii. To ensure that the late comers are not admitted into the examination hall later than 30 minutes after the commencement of the exam.
 - iv. To ensure that no student is allowed to leave the examination hall before time is over.
 - v. To ensure that no student takes recourse to any unfair means and possesses any unauthorized paper or material with him/her. The members of the squad will also have the authority to inspect and search any person/candidate in the event of suspicion. Female member of the flying squad is only authorized to search a girl student.
 - vi. The members of the flying squad shall also observe the conduct of the invigilators and other functionaries deployed for the examination duty to ensure that no one helps any candidate directly or indirectly. Any violation should be brought to the notice of the center superintendent and the COE.
 - vii. The members of the flying squad must also check that no unauthorized person is moving about or present in the premises of the examination center. In case of suspicion the identity of such person should immediately be checked and in case of unauthorized person is having been spotted necessary action be initiated.

12. Instructions to Centre Superintendents and Deputy Centre Superintendents

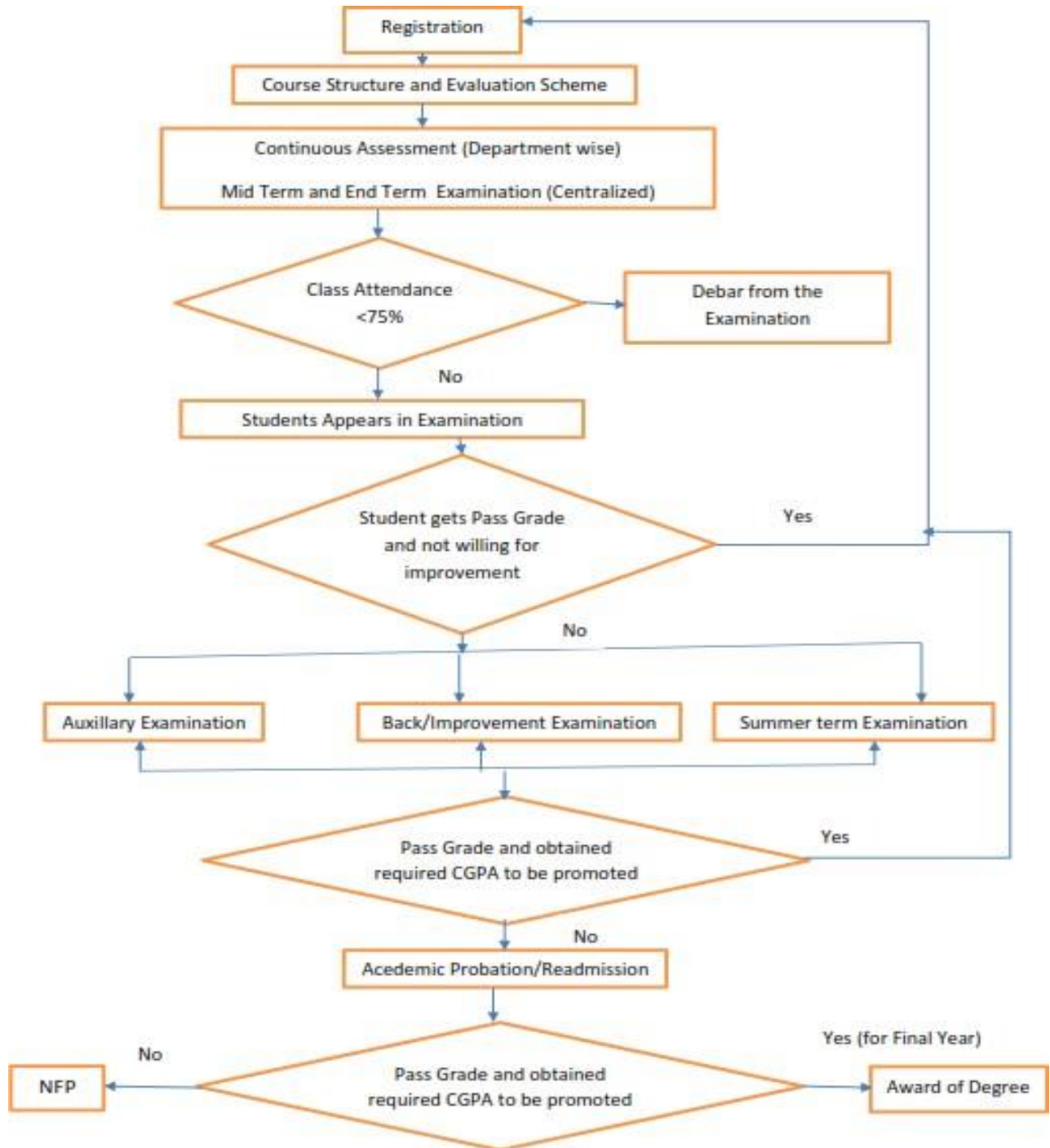
- i. The Centre Superintendent shall be in-charge of the center and would be responsible for the smooth and efficient conduct of the examination at the center.
- ii. The Centre Superintendent shall depute flying squad among the list of invigilators.
- iii. The Centre Superintendent on receipt of question paper packets shall verify that they are properly sealed and that the title of the paper mentioned on the packets matches with the paper scheduled for the day. Discrepancy, if any, may be reported to the COE immediately.
- iv. The Centre Superintendent shall ensure entry of candidates to the exam hall only 15 minutes before the scheduled time of the examination.
- v. Candidates and invigilators are not allowed to use/carry mobiles in the examination hall.
- vi. It is to be ensured that all invigilators perform their duty with all alertness for smooth and fair conduct of examinations and check the use of unfair means during examination of any type.
- vii. Entry without ID card and Hall Ticket is not permissible. In case any candidate is without the ID, the Centre Superintendent is authorized to permit him/her only for that shift.
- viii. Late entry up to 20 minutes in Mid Term Examination and 30 minutes in End Term Examination is permissible in the examination hall, beyond which up to another 20 minute permission can be granted by the Centre Superintendent for justified reasons.
- ix. Before the start of the examination, there must be a proper warning and announcement to the fact that the use of unfair means is prohibited and anyone found guilty / using such means would be punished as per the university rules.
- x. Answer booklets shall be collected and arranged program, course wise and section wise, in ascending order of enrollment numbers.
- xi. If a candidate leaves the examination center without handing over his / her answer booklet to the invigilator, then description of paper shall be furnished to the COE who shall register an unfair means case. In case of optional paper, the answer booklets shall be bundled stream wise.
- xii. Subject wise absentee statement shall be prepared and submitted to the representative of examination division along with the answer booklets.
- xiii. All the unused question papers along with question paper envelopes are to be returned to the examination division along with the answer booklets.
- xiv. There shall be proper record of used and unused answer booklets date wise. The unused answer booklets shall be kept in safe custody and in no circumstance be in the reach of the candidates for their misuse. After the conclusion of the examination the balance answer booklets shall be returned to the exam division.
- xv. The attendance of candidates should be properly recorded by the concerned invigilator and counter signed by the Centre Superintendent.

- xvi. In case of UFM, a Performa should be filled by the Students with the statement of Invigilators. A new answer sheet will be given to students. Both student & invigilator must sign on every piece of recovered incriminating material. Both copies A & B should be submitted to COE office in a separate envelope for further processing.
- xvii. No person will be allowed in an examination room during an examination except the students concerned, invigilators and the persons authorized to do so by the competent authority.
- xviii. No change in the question paper however trivial can be announced directly by the faculty or invigilators without bringing it to the notice of the controller of examination / center superintendent / in-charge.

13. Industrial Internship

- i. Students of Final Semester can opt the four/six month Internship in an Industry in lieu of regular final semester. During the Internship the evaluation process shall be as:
- ii. Student will work on one industrial project in consultation with mentor at Industry and one guide from University.
- iii. University Guide shall be responsible for continuous monitoring of student during the entire duration of Internship.
- iv. Student shall send the progress report, duly signed by the mentor at Industry, to the Guide at University.
- v. The last date of obtaining NOC for the Industrial Internship shall be two weeks from the commencement of final Semester. After that no NOC shall be issued to the student.
- vi. The Final Presentation/ final Assessment will take place during the End Term Examination.
- vii. The Result will be declared with the Regular Result declaration.
- viii. The pending result based on the delayed assessment shall be declared only after the approval of Vice Chancellor.

Flow Chart Registration to Award of Degree



DIT UNIVERSITY DEHRADUN

B.TECH (CSE) MID TERM EXAMINATION, EVEN SEM 2018-19 (SEM VI)

| | | | | | | | | | | | | |
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| Roll No. | | | | | | | | | | | | |
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Subject Name: Measurement and Instrumentation

Time: 2 Hours

Total Marks: 50

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the exam

| Q.1) | Attempt all Parts : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|----------|-----------|----------|------|--|--|----|---|----|----|--|--|---|----|---|-----|--|--|----|-----|---|-----|--|--|---|-----|---|-----|--|--|----|-----|---|-----|--|--|---|----|---|-----|--|--|---|----|---|-----|--|--|---|----|---|----|--|--|---|----|----------|----|--|--|--|-----|--|------|----------|------|
| (a) | Explain the following terms: I. Measurement II. Accuracy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 OC and that of charge is to be 700 OC, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 OC and that of charge is to be 700 OC, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>GRADE</th> <th>FREQUENCY</th> <th>RANGE</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>A+</td> <td>1</td> <td>10</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>78</td> <td>9</td> <td>702</td> <td></td> <td></td> </tr> <tr> <td>B+</td> <td>108</td> <td>8</td> <td>864</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>139</td> <td>7</td> <td>973</td> <td></td> <td></td> </tr> <tr> <td>C+</td> <td>117</td> <td>6</td> <td>702</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>87</td> <td>5</td> <td>435</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>38</td> <td>4</td> <td>152</td> <td></td> <td></td> </tr> <tr> <td>E</td> <td>34</td> <td>2</td> <td>68</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>25</td> <td>Figure 1</td> <td>25</td> <td></td> <td></td> </tr> <tr> <td></td> <td>627</td> <td></td> <td>3931</td> <td>6.269537</td> <td>NGPA</td> </tr> </tbody> </table> | GRADE | FREQUENCY | RANGE | | | | A+ | 1 | 10 | 10 | | | A | 78 | 9 | 702 | | | B+ | 108 | 8 | 864 | | | B | 139 | 7 | 973 | | | C+ | 117 | 6 | 702 | | | C | 87 | 5 | 435 | | | D | 38 | 4 | 152 | | | E | 34 | 2 | 68 | | | F | 25 | Figure 1 | 25 | | | | 627 | | 3931 | 6.269537 | NGPA |
| GRADE | FREQUENCY | RANGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A+ | 1 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 78 | 9 | 702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B+ | 108 | 8 | 864 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 139 | 7 | 973 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C+ | 117 | 6 | 702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 87 | 5 | 435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 38 | 4 | 152 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 34 | 2 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | 25 | Figure 1 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 627 | | 3931 | 6.269537 | NGPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (d) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 OC and that of charge is to be 700 OC, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [4 x 2.5= 10] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.2) | Attempt all Parts : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) | A wattmeter having a range of 1000W has an error of +/-1.5% of full scale deflection.if the true power is 100 W,what would be the range of readings? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | A copper refining plant, using 450 electrolytic cells, carries a current of 5500 A, voltage per cell being 0.25 V. If the plant were to work 45 hours/week, calculate the energy consumption per tonne. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-------------------------|--------------------------------|---|
| | (c) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. Estimate a suitable width for the strip. |
| | (d) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 0C and that of charge is to be 700 0C, estimate a suitable width for the strip. |
| | | [4 x 2.5= 10] |
| Q.3) | Attempt any Two Parts : | |
| | (a) | A copper refining plant, using 450 electrolytic cells, carries a current of 5500 A, voltage per cell being 0.25 V. If the plant were to work 45 hours/week, calculate the energy consumption per tonne. Assume E.C.E. of copper as 32.8×10^{-8} kg/C. |
| | (b) | A lamp of 500 W is suspended at a height of 4.5 meters above the working plane and gives uniform illumination over an area of 6 m diameter. Assuming an efficiency on the reflector as 70% and efficiency of lamp as 0.8 watt per candle power, determine the illumination on the surface working plane. |
| | (c) | Explain the principle & working of PMMC Instruments. |
| | | [2 x 5= 10] |
| Q.4) | Attempt any Two Parts : | |
| | (a) | A 200 ton motor coach having 4 motors each developing 6000 Nm torque during acceleration starts from rest. If the gradient is 30 in 1000, gear ratio 4, gear transmission efficiency 90%, wheel radius 45 cm, train resistance 50 N/t, addition of rotational inertia 10%. Calculate the time taken to attain a speed of 50 kmph. |
| | (b) | Draw the speed – time curves for urban suburban & main line services. Also explain the following terms (i) Notching period (ii) Accelerating period (iii) Free run period (iv) Coasting period |
| | (c) | Explain how the basic D’Arsonval movement can be converted into a DC Ammeter & DC Voltmeter. |
| | | [2 x 5= 10] |
| Q.5) | Attempt any Two Parts : | |
| | (a) | Explain with the help of neat diagram shunt and bridge transitions used in case of series-parallel control of series motor. Which among them is preferable and why? |
| | (b) | Explain with the help of suitable connection diagram, the resistance control method used in d.c. traction motors. List its advantages and disadvantages. |
| | (c) | What are the advantages of electric heating? Give classification of various electric heating methods along with brief account of their working principle |
| | | [2 x 5= 10] |
| -----END OF PAPER ----- | | |

DIT UNIVERSITY DEHRADUN

B.TECH (CSE) END TERM EXAMINATION, EVEN SEM
2018-19 (SEM VI)

| | | | | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Roll No. | | | | | | | | | | | | | | |
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Subject Name: Measurement and Instrumentation

Time: 3 Hours

Total Marks: 100

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the exam.

| Q.1) | Attempt all Parts : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|-------|-----------|-----------------|-------------|--|--|----|---|----|----|--|--|---|----|---|-----|--|--|----|-----|---|-----|--|--|---|-----|---|-----|--|--|----|-----|---|-----|--|--|---|----|---|-----|--|--|---|----|---|-----|--|--|---|----|---|----|--|--|---|----|---|----|--|--|--|-----|--|------|-----------------|-------------|
| (a) | Explain the following terms: I. Measurement II. Accuracy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 0C and that of charge is to be 700 0C, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 0C and that of charge is to be 700 0C, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. <table border="1" data-bbox="475 1182 1305 1590"> <thead> <tr> <th>GRADE</th> <th>FREQUENCY</th> <th>RANGE</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>A+</td> <td>1</td> <td>10</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>78</td> <td>9</td> <td>702</td> <td></td> <td></td> </tr> <tr> <td>B+</td> <td>108</td> <td>8</td> <td>864</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>139</td> <td>7</td> <td>973</td> <td></td> <td></td> </tr> <tr> <td>C+</td> <td>117</td> <td>6</td> <td>702</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>87</td> <td>5</td> <td>435</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>38</td> <td>4</td> <td>152</td> <td></td> <td></td> </tr> <tr> <td>E</td> <td>34</td> <td>2</td> <td>68</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>25</td> <td>1</td> <td>25</td> <td></td> <td></td> </tr> <tr> <td></td> <td>627</td> <td></td> <td>3931</td> <td>6.269537</td> <td>NGPA</td> </tr> </tbody> </table> Figure 1 | GRADE | FREQUENCY | RANGE | | | | A+ | 1 | 10 | 10 | | | A | 78 | 9 | 702 | | | B+ | 108 | 8 | 864 | | | B | 139 | 7 | 973 | | | C+ | 117 | 6 | 702 | | | C | 87 | 5 | 435 | | | D | 38 | 4 | 152 | | | E | 34 | 2 | 68 | | | F | 25 | 1 | 25 | | | | 627 | | 3931 | 6.269537 | NGPA |
| GRADE | FREQUENCY | RANGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A+ | 1 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 78 | 9 | 702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B+ | 108 | 8 | 864 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 139 | 7 | 973 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C+ | 117 | 6 | 702 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 87 | 5 | 435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 38 | 4 | 152 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | 34 | 2 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | 25 | 1 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 627 | | 3931 | 6.269537 | NGPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (d) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 0C and that of charge is to be 700 0C, estimate a suitable width for the strip. Assume radiating efficiency as 0.6 and emissivity as 0.9. The specific resistance of the nichrome alloy is $1.03 \times 10^{-6} \Omega\text{-m}$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [4 x 5= 20] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.2) | Attempt all Parts : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) | A wattmeter having a range of 1000W has an error of +/-1.5% of full scale deflection.if the true power is 100 W,what would be the range of readings? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-------------------------|--------------------------------|---|
| | (b) | A copper refining plant, using 450 electrolytic cells, carries a current of 5500 A, voltage per cell being 0.25 V. If the plant were to work 45 hours/week, calculate the energy consumption per tonne. |
| | (c) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. Estimate a suitable width for the strip. |
| | (d) | A 30 kW, 3 phase, 400 V resistance oven is to employ nickel – chrome strip 0.025 cm thick for the 3 phase star – connected heating elements. If the wire temperature is to be 1100 °C and that of charge is to be 700 °C, estimate a suitable width for the strip. |
| | | [4 x 5= 20] |
| Q.3) | Attempt any Two Parts : | |
| | (a) | A copper refining plant, using 450 electrolytic cells, carries a current of 5500 A, voltage per cell being 0.25 V. If the plant were to work 45 hours/week, calculate the energy consumption per tonne. Assume E.C.E. of copper as 32.8×10^{-8} kg/C. |
| | (b) | A lamp of 500 W is suspended at a height of 4.5 meters above the working plane and gives uniform illumination over an area of 6 m diameter. Assuming an efficiency on the reflector as 70% and efficiency of lamp as 0.8 watt per candle power, determine the illumination on the surface working plane. |
| | (c) | Explain the principle & working of PMMC Instruments. |
| | | [2 x 10= 20] |
| Q.4) | Attempt any Two Parts : | |
| | (a) | A 200 ton motor coach having 4 motors each developing 6000 Nm torque during acceleration starts from rest. If the gradient is 30 in 1000, gear ratio 4, gear transmission efficiency 90%, wheel radius 45 cm, train resistance 50 N/t, addition of rotational inertia 10%. Calculate the time taken to attain a speed of 50 kmph. |
| | (b) | Draw the speed – time curves for urban suburban & main line services. Also explain the following terms (i) Notching period (ii) Accelerating period (iii) Free run period (iv) Coasting period |
| | (c) | Explain how the basic D’Arsonval movement can be converted into a DC Ammeter & DC Voltmeter. |
| | | [2 x 10= 20] |
| Q.5) | Attempt any Two Parts : | |
| | (a) | Explain with the help of neat diagram shunt and bridge transitions used in case of series-parallel control of series motor. Which among them is preferable and why? |
| | (b) | Explain with the help of suitable connection diagram, the resistance control method used in d.c. traction motors. List its advantages and disadvantages. |
| | (c) | What are the advantages of electric heating? Give classification of various electric heating methods along with brief account of their working principle |
| | | [2 x 10= 20] |
| -----END OF PAPER ----- | | |

Marks Distribution Scheme

(1) For Non-FFCBCS (Semester System)

A) Marks Distribution Scheme for Diploma, B.Tech, B.Sc (Honors), B.A (Honors), BCA, MCA, MSc and M.Tech

| | Category | Theory + Lab Course | Only Theory | Only Lab | Theory (1 credit) + Lab | Project Phase I-II-III / Industrial Training and Presentation / Industrial Tour / Aptitude Building I-II / Value Addition Training (Continual Assessment) |
|-----------------------------------|---------------------------|---------------------|-------------|------------|-------------------------|---|
| Continuous Evaluation (CE) | Mid-term | 20 | 30 | - | 10 | - |
| | Class Test / Assignment | 10 | 10 | - | 15 | - |
| | Quizzes | 10 | 10 | 10 | 10 | - |
| Lab Evaluation | Continuous Lab Assessment | 5 | - | 10 | 5 | - |
| | Lab Report | 5 | - | 10 | 10 | - |
| | Lab performance + Viva | 10 | - | 70 | 20 | - |
| Theory | End-term | 40 | 50 | | 30 | - |
| | Total | 100 | 100 | 100 | 100 | 100 |

B) Marks Distribution Scheme for B.Des and B.Arch

| | Category | Theory Studio Course + | Only Theory | Only Studio | Industrial Training/ Value Added Programme/ Educational Tour/ Aptitude Building |
|-----------------------------------|---|------------------------|-------------|-------------|---|
| Continuous Evaluation (CE) | Mid-term | 20 | 30 | - | |
| | Class Test/ Assignment | 10 | 10 | 10 | |
| | Quizzes | 10 | 10 | - | |
| Studio Evaluation | Continuous Studio Assessment | 5 | - | 20 | |
| | Studio Report (Portfolio) | 5 | - | 20 | |
| | Studio Performance + Viva/External Jury | 20 | - | 50 | |
| Theory | End-term | 30 | 50 | - | |
| | TOTAL | 100 | 100 | 100 | 100 |

C) For non-credit courses:

Total marks distribution will be as under:

| Category | Maximum Marks |
|-----------------------|---------------|
| Continuous Evaluation | 50 Marks |
| End-term Evaluation | 50 Marks |

Final Grading:

| Letter Grade | Description |
|--------------|--------------|
| G | Good |
| S | Satisfactory |
| P | Poor |

For FFCBCS

A) Marks Distribution Scheme for B.Tech, BCA, MCA

| | Category | Theory + Lab Course | Only Theory | Only Lab | Capstone Technical Aptitude & Soft Skills | Project Training / |
|---|---------------------------|---------------------|-------------|------------|---|--------------------|
| Continuous Evaluation Instrument | Open Book Exam | - | 20 | - | - | - |
| | Assignment | - | 10 | - | - | - |
| | Quizzes | 15 | 20 | - | - | - |
| | Continuous Assessment Lab | 25 | - | 35 | - | - |
| | Project | 10 | - | 15 | - | - |
| Exam Instrument | Mid-term (Theory / Lab) | 20 | 20 | 20 | - | - |
| | End-term (Theory / Lab) | 30 | 30 | 30 | - | - |
| | Total | 100 | 100 | 100 | 100 | |

Theory + Lab

| Instrument Category | Marks |
|---------------------------|-----------------|
| Quizzes (best 3 out of 4) | 3x5 = 15 marks |
| Continuous Lab Assessment | 25 marks |
| Project | 1x10 = 10 marks |

Only Theory

| Instrument Category | Marks |
|---------------------------|-----------------|
| Open Book Exam (in class) | 2x10 = 20 marks |
| Assignment | 2x5 = 10 marks |
| Quizzes (best 4 out of 5) | 4x5 = 20 marks |

Only Lab

| Instrument Category | Marks |
|---------------------------|-----------------|
| Continuous Lab Assessment | 35 marks |
| Project | 1x15 = 15 marks |

B) Marks Distribution Scheme for B.Des and B.Arch

| | Category | Theory + Studio Course | Only Theory | Only Studio | Industrial Training/ Value Added Programme/ Educational Tour/ Aptitude Building |
|-----------------------------------|---|------------------------|-------------|-------------|---|
| Continuous Evaluation (CE) | Mid-term | 20 | 30 | - | |
| | Class Test/ Assignment | 10 | 10 | 10 | |
| | Quizzes | 10 | 10 | - | |
| Studio Evaluation | Continuous Studio Assessment | 5 | - | 20 | |
| | Studio Report (Portfolio) | 5 | - | 20 | |
| | Studio Performance + Viva/External Jury | 20 | - | 50 | |
| Theory | End-term | 30 | 50 | - | |
| | TOTAL | 100 | 100 | 100 | 100 |

Minimum passing marks in the End-Term Theory Examination is 30%. Total marks (comprising all Continuous Evaluation Instruments + Mid-Term Examination + End-Term Examination) required for passing a course shall be a minimum of 30 marks out of 100 marks.

For B.Arch, no minimum passing marks in the End-Term Theory Examination. Total marks (comprising all Continuous Evaluation Instruments + Mid-Term Examination + End-Term Examination) required for passing a course shall be a minimum of 50 marks out of 100 marks.

C) For non-credit courses:

Total marks distribution will be as under:

| Category | Maximum Marks |
|-----------------------|---------------|
| Continuous Evaluation | 50 Marks |
| End-term Evaluation | 50 Marks |

Final Grading:

| Letter Grade | Description |
|--------------|--------------|
| G | Good |
| S | Satisfactory |
| P | Poor |

Allotment, Monitoring and Evaluation of Academic Projects Thesis / Report

Students of B.Tech programme are required to take up academic project in three phases [5th, 6th & 7th semesters for CBCS and 6th, 7th & 8th for old batch whereas students of Diploma in Engineering and M.Tech programme are required to take up the project in two phases in last two semesters of their respective programs:

1. B.Tech. Programmes

Allotment - Students should be divided into the groups of four (maximum) and a guide has to be assigned by the Head of the Department in consonance with the project area of the particular group of students and the area of expertise of the faculty member assigned as the guide.

Monitoring of Progress - Day to day monitoring has to be done by the guide as per the time slot decided by the concerned faculty member guiding the project.

Evaluation - Evaluation of project work will be done in three phases. Phase I, II & III will be conducted in 5th, 6th & 7th semester respectively for CBCS pattern and in 6th, 7th & 8th for old batch and assessment scheme will be as per the Table A. The evaluation of project will be done by a panel or examiners comprising of -

- i. Head of the Department - Chairperson
- ii. Project Guide - Faculty members from the concerned Department assigned by the HoD to a particular group of students
- iii. Two faculty members from the Department

Work at Various Evaluation phases will be taken up as under:

Phase-I

1st Presentation - Topic and guide selection, literature review

2nd Presentation - Detailed presentation on literature review, collection or references and discussion on the work selected i.e. synopsis of proposed project work.

3rd Presentation - Complete documentation of the work done in Phase I & road map for Phase II.

Phase-II

1st Presentation - Detailing of the proposed work for Phase II.

2nd Presentation - Experimentation, data collection and analysis of result.

3rd Presentation - Complete documentation of the work done in Phase II.

Phase-III

1st Presentation - Complete planning for project report writing.

2nd Presentation - Detailing of project write up / report.

3rd Presentation - Submission of project report in the prescribed format after incorporating corrections and changes suggested by the panel of examiners / evaluators.

2. M.Tech. Dissertation / MCA Report

Allotment - Topic for Thesis / dissertation and guide to be assigned by the Head of the Department in consonance with the area or research and the area or expertise of the guide.

Monitoring of Progress - Day to day monitoring has to be done by the guide as per the time slot decided by the concerned faculty member guiding the project.

Evaluation - Thesis/project report will be conducted in two phases. Phase I & II in pre-final & final semester respectively and will be evaluated out of 100 marks as per Table A. The evaluation of Project is to be done by a panel of examiners comprising of-

- i. Head of the Department - Chairperson
- ii. Thesis Guide - Faculty member from the concerned department assigned by the HoD
- iii. Two faculty members from the department nominated by HoD

Phase-I

1st Presentation - Topic and guide selection, literature review

2nd Presentation - Detailed presentation on literature review, collection of references and discussion on the work selected i.e. synopsis of proposed research work.

3rd Presentation - Complete documentation of the experimentation & data collection, roadmap for Phase-II.

Phase-II

1st Presentation - Detailing of the report of data collection.

2nd Presentation - Completion of result analysis & thesis write-up.

3rd Presentation - Submission of complete presentation on thesis & dissertation.

3. B.Arch. / B.Des. ID & UX / BCA / M.Des UX

Project for B.Arch., B.Des. (ID), B.Des (VGA) will be conducted in 10th, 8th & 7th semester respectively. Project for B.Des (UX) & M.Des (UX) will be conducted in 8th and 3rd / 4th semester respectively and students will work on client's location.

Allotment - Student to be divided into the groups of four each and a guide is to be assigned by the Head of the Department in consonance with the project area of the particular group of students and the area of expertise of the faculty member.

Monitoring of Progress - Day to day monitoring by the guide as per the time slot decided by the concerned faculty member guiding the project.

Evaluation - Evaluation will be based on 4 presentations and by the panel of examiners as mentioned below. Marks distribution will be as per Table A. Departmental Panel of Examiners will be comprising of-

- i. Head of the Department - Chairperson
- ii. Project Guide - Faculty member from the concerned department assigned by the HoD to the particular groups of students.
- iii. Two faculty members from the department.

Table A

A. B.Tech (4 Years Program)

| S No. | Evaluation | Marks |
|--------------|--|--------------|
| 1. | Day to day evaluation by the guide | 20 |
| 2. | First Presentation, between 3 rd and 4 th week | 20 |
| 3. | Mid-term evaluation (after mid-term examinations) | 20 |
| 4. | End-term evaluation (after end-term examinations) | 40 |
| Total | | 100 |

B. M.Tech /MCA

| S No. | Evaluation | Marks |
|--------------|--|--------------|
| 1. | Day to day evaluation by the guide | 20 |
| 2. | First Presentation, between 3 rd and 4 th week | 20 |
| 3. | Mid-term evaluation (after mid-term examinations) | 20 |
| 4. | End-term evaluation (after end-term examinations) | 40 |
| Total | | 100 |

C. B.Arch. / B.Des. ID & UX/MDes UX

| S No. | Evaluation | Marks |
|--------------|--|------------|
| 1. | 1 st Presentation, between 4 th & 5 th week | 10 |
| 2. | 2 nd Presentation, 20 days after first presentation | 10 |
| 3. | 3 rd Presentation, after mid-term examinations | 10 |
| 4. | 4 th Presentation, before end-term examinations | 20 |
| 5. | Evaluation by External Examiners | 50 |
| Total | | 100 |

D. B.Sc./BCA

| S No. | Evaluation | Marks |
|--------------|--|------------|
| 1. | Day to day evaluation by the guide | 20 |
| 2. | First Presentation, between 3 rd and 4 th week | 20 |
| 3. | Mid-term evaluation (after mid-term examinations) | 20 |
| 4. | End-term evaluation (after end-term examinations) | 40 |
| Total | | 100 |

Practical Training for B.Arch / B.Des (ID), B.Des (VGA)

Mandatory Practical Training for B.Arch / B.Des (ID), B.Des (VGA) will be conducted in 9th, 6th & 8th semester respectively.

| S No. | Evaluation | Marks |
|--------------|--|------------|
| 1. | Internal Jury | 50 |
| 2. | Confidential Report from Training Organization | 20 |
| 3. | External Jury | 30 |
| Total | | 100 |

Allotment, Monitoring and Evaluation of Internship Summer Training

1) For B.Tech

Summer Training of all students of B.Tech program is mandatory. Every student has to select the industry according to his/her choice in consultation with his Mentor/CDC Department in the area of his/her interest. Duration for the internship is two months during summer vacation of that academic session as mentioned in their course structure.

Every student has to attend the training in the concerned industry for the said duration and is required to report in the department immediately after completion of the training.

Post training, evaluation of the student is done by the committee constituted by the department heads based on the industry feedback and presentation done by the student before the committee in the prescribed format provided by the Dean Academic Office.

Constitution of the committee will be as follows:

Head of the Department – Chairperson

Two faculty members of the Department

| S | Evaluation | Marks |
|--------------|--------------|------------|
| 1. | Field Work | 60 |
| 2. | Presentation | 20 |
| 3. | Report | 20 |
| Total | | 100 |

2) For M.Plan

| S | Evaluation | Marks |
|--------------|--|------------|
| 1. | Internal Jury | 50 |
| 2. | Confidential Report from Training Organization | 20 |
| 3. | External Jury | 30 |
| Total | | 100 |

Industrial Internship (B.Tech)

Students of final semester can opt the four/six month's internship in an industry in lieu of regular final semester. During the internship the valuation process shall be as under:

- i. Student will work on one industrial project in consultation with mentor at Industry and one guide from University.
- ii. University Guide shall be responsible for continuous monitoring of student during the entire duration of Internship.
- iii. Student shall send the progress report, duly signed by the mentor at Industry to the Guide at University.
- iv. The last date of obtaining NoC for the Industrial Internship shall be two weeks from the commencement of final semester. After that no NoC shall be issued to the student.
- v. The final presentation /final assessment will take place during the end-term examination.
- vi. The result will be declared with the Regular Result declaration.
- vii. The pending result based on the delayed assessment shall be declared only after the approval of the Vice Chancellor.

| S No. | Evaluation | Marks |
|--------------|-------------------|------------|
| 1. | Supervisor | 20 |
| 2. | Industry Feedback | 40 |
| 3. | Presentation | 20 |
| 4. | Project Report | 20 |
| Total | | 100 |

(2) For Non-FFCBCS (Trimester System)

Marks Distribution Scheme for MBA (Trimester)

| | Category | Theory + Lab Course | Only Theory | Only Lab | Summer Project/Industrial Project/Dissertation/Industrial Tour | Internship |
|---|-------------------------------------|---------------------|-------------|------------|--|------------|
| Continuous Evaluation Instrument | Assignment | - | 10 | - | - | |
| | Mini Project / Field Work (group) | 10 | 10 | 20 | | |
| | Quizzes | 10 | 20 | 10 | - | |
| | Case Analysis & Presentation(group) | 10 | 10 | - | - | |
| | Continuous Lab Assessment | 20 | - | 20 | - | |
| Discrete Evaluation Instrument | Mid-term (Theory / Lab) | 20 | 20 | 20 | - | |
| | End-term (Theory / Lab) | 30 | 30 | 30 | - | |
| | Total | 100 | 100 | 100 | 100 | |

Theory + Lab

| Instrument Category | Marks |
|-------------------------------------|---------------|
| Mini Project / Field Work (group) | 1x10=10 marks |
| Quizzes | 2x5=10 marks |
| Case Analysis & Presentation(group) | 1x10=10 marks |
| Continuous Lab Assessment | 4x5=20 marks |

Only Theory

| Instrument Category | Marks |
|-------------------------------------|---------------|
| Assignment | 2x5=10 marks |
| Mini Project / Field Work (group) | 1x10=10 marks |
| Quizzes | 4x5=20 marks |
| Case Analysis & Presentation(group) | 1x10=10 marks |

Only Lab

| Instrument Category | Marks |
|---------------------------|---------------|
| Mini Project (group) | 1x20=20 marks |
| Quizzes | 1x10=10 marks |
| Continuous Lab Assessment | 4x5=20 marks |

Allotment, Monitoring and Evaluation of Industrial Training / Dissertation

Student of this programme will take up industrial training / dissertation during 6th trimester in any of the relevant fields and will submit the report after completion of the training / dissertation.

Those students who are placed in a Company duly verified by Placement Office will undertake industrial training and those who do not get placed or whose joining is delayed will complete Dissertation under the supervision of a faculty guide.

Student will apply for the training through HoD and will inform the department after getting confirmation from the industry concerned. HoD has to provide a guide for each student to monitor the progress of the students on training and students are required to send the progress report to HoD at the end of every month. After completion of the training, students are required to prepare a detailed report as per the format suggested by the department & submit to the department after completion of the training.

Assessment of the training will be done by a panel of examiners based on the report of guide and progress report from the company where the student has completed the training.

For dissertation, students will be allotted a faculty guide based on their specialization and complete the same by the end of trimester.

The evaluation panel and assessment scheme will be as under:

| Type of Instrument | Total |
|--|---------------|
| Synopsis Submission | 1*10=10 marks |
| Presentation on progress– Phase 1 | 1*20=20 marks |
| Industry / Supervisor Feedback | 1*30=30 marks |
| Final Project submission and Presentation | 1*40=40 marks |
| Total | 100 |

Panel for Presentation:

i. Head of the Department – Chairperson

ii. Guide and two other faculty members from the concerned department assigned by the HoD to the particular groups of students.

Allotment, Monitoring and Evaluation of Summer Training

Summer Training of all students of MBA program is mandatory. Every student has to select the industry according to his/her choice in consultation with his Mentor/CDC Department in the area of his/her interest. Duration for the internship is two months during summer vacation of that academic session as mentioned in their course structure.

Every student has to attend the training in the concerned industry for the said duration and is required to report in the department immediately after completion of the training.

Post training, evaluation of the student is done by the committee constituted by the department heads based on the industry feedback and presentation done by the student before the committee in the prescribed format provided by the Dean Academic Office.

Constitution of the committee will be as under:

Head of the Department – Chairperson

Two faculty members of the Department

| S No. | Evaluation | Marks |
|--------------|-------------------|--------------|
| 1. | Field Work | 60 |
| 2. | Presentation | 20 |
| 3. | Report | 20 |
| Total | | 100 |

Evaluation of Industrial Tour and Non-Credit Courses:

Total marks distribution will be as under:

| Category | Maximum Marks |
|---|----------------------|
| Industrial Tour Report Submission / Continuous Evaluation | 50 Marks |
| Report Presentation / End-term Evaluation | 50 Marks |

Final Grading:

| Letter Grade | Description |
|---------------------|--------------------|
| G | Good |
| S | Satisfactory |
| P | Poor |

GENERAL INSTRUCTION

- 1 Download the Marks from SAP Using ZGREP Transaction Code
- 2 Take out the total Marks from the report obtained as per above
- 3 Paste the total marks in the first cell of the Marks Input Sheet
- 4 See the Statistics in the next sheet named as Statistics
- 5 Make the Histogram using DATA ANALYSIS TAB
- 6 Do the iteration with the cutt-proposed column (H) highlighted in green colour
- 7 No. Count is follows..

| | | |
|-----------|---|--|
| A+ | ? | Greater then |
| A | ? | Greater then and less than equal to previous value |
| B+ | ? | Greater then and less than equal to previous value |
| B | ? | Greater then and less than equal to previous value |
| C+ | ? | Greater then and less than equal to previous value |
| C | ? | Greater then and less than equal to previous value |
| D | ? | Greater then and less than equal to previous value |
| E | ? | Greater then and less than equal to previous value |
| F | ? | Greater then and less than equal to previous value |

- 8 NGPA should be preferably 6 and above
- 9 Grading for the regular, Back , Debar and Improvement will be uniform with current grading scheme
- 10 Histogram sheets to the COE office through respective Heads of Department

Steps to be Followed

- Step 1 Enter the Marks in the Marks sheet
- Step 2 **Make the Histogram (while making histogram pl give the bin range of 0 to 100)**
- Step 3 Go on the Statistics Sheet and put the cutoff
- Step 4 Take the print of Two Sheet (statistics and Histogram)
- Step 5 Submit the same to COE Office

How to Enable DATA ANALYS TAB For Making Histogram

- Go to File
 Select the Option Button on the left
 Select Add in button
 Click on Go Button at Bottom
 Check the First Two Check Box Namely Analysis tool box
 Click OK
 Get the DATA ANALYSIS TAB Enabled

Applicable only for 2014 onwards Batch (wef from 2016)**WORKING SHEET FOR GRADE DECISION**

| | |
|-------------------------|--|
| Name of The Dept | |
| Course Code | |
| Course Name | |

| | |
|-----------------------|--|
| Name of Course | |
| Co-ordinator | |

| Particular | Measures |
|----------------------|----------|
| Total No. of Student | 0 |
| Average Marks | #DIV/0! |
| Maximum Marks | 0 |
| Minimum Marks | 0 |
| Standard Deviation | #DIV/0! |
| Kurtosis | #DIV/0! |
| Skewness | #DIV/0! |

| Grade | GRADE POINT | Proposed Grade cut off | No. of Students |
|-------|-------------|------------------------|-----------------|
| A+ | 10 | 0 | 0 |
| A | 9 | 0 | 0 |
| B+ | 8 | 0 | 0 |
| B | 7 | 0 | 0 |
| C+ | 6 | 0 | 0 |
| C | 5 | 0 | 0 |
| D | 4 | 0 | 0 |
| E | 2 | 0 | 0 |
| F | 0 | 0 | 0 |

| Grade | Grade Cut-off After Moderation |
|-------|--------------------------------|
| A+ | |
| A | |
| B+ | |
| B | |
| C+ | |
| C | |
| D | |
| E | |
| F | |

| | |
|-------------|----------------|
| NGPA | #DIV/0! |
|-------------|----------------|

Signature of the Course Coordinator
Date

Signature of Moderator