

ORDINANCE
FOR
Post Diploma in CAD/CAM



*(THIS ORDINANCE HAS BEEN APPROVED IN THE MEETING OF BOARD OF
MANAGEMENT HELD ON.....2019)*

APPLICABLE W.E.F. ACADEMIC SESSION 2019-2020

SRI HARGOBINDGARH, PHAGWARA – HOSHIARPUR ROAD, PHAGWARA 144401
PUNJAB



ORDINANCE FOR **POST DIPLOMA IN CAD/CAM**

SHORT TITLE AND COMMENCEMENT

- I. This Ordinance shall be called the Ordinance for the Post Diploma in CAD/CAM of GNA University, Phagwara.
- II. This Ordinance shall come into force with effect from academic session 2019-20.
- 1. Name of Program:** Post Diploma in CAD/CAM
- 2. Name of Faculty:** Faculty of Engineering, Design and Automation
- 3. Program Duration:** Total duration of the Program shall be of 1 year and each year will comprise of two semesters. In addition, each semester shall normally have 90 working days.
- 4. Eligibility for Admission:** Diploma or B.Tech or M.Tech. with 50% marks in aggregate in Mechanical Engineering or equivalent.
- 5. Admission Process:** The centralized admission cell shall make selection for admission to the program. The selection of the candidate shall be strictly on merit basis, subject to fulfillment of eligibility criteria. Candidates are required to fill the prescribed application form and submit the same to the admission cell. The admission cell after verifying the eligibility will forward the form to the Office of Registrar for further processing. If the candidate is selected, he/she is required to deposit the prescribed fee along with the application form and the required documents to the Office of Registrar.
- 6. Curriculum:** The 1 year curriculum has been divided into 2 semesters and shall include lectures, tutorials, practical and projects. In addition to the industrial visits and educational tours etc. The curriculum will also include other curricular, co-curricular and extra-curricular activities as may be prescribed by the University from time to time.
- 7. Choice Based Credit System:**

The University has adopted Choice Based Credit System (CBCS), which provides an opportunity to the students to choose courses from the offered courses comprising of Core, Elective, Ability Enhancement and Audit Courses. The choice based credit system provides a “flexible” approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. Following are the types of courses and structure for the program:

As per UGC

 - I. **Core Course:** A course, which should compulsorily be studied by a candidate as a core requirement to complete the requirement of program in a said discipline of study.
 - II. **Elective Course:** Generally, a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables

an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course.

- III. **Discipline Specific Elective (DSE) Course:** Elective courses may be offered by the main discipline/subject of study, is referred to as Discipline Specific Elective. The University/Institute may also offer discipline related Elective courses from unrelated discipline (to be offered by main discipline/subject of study).
- IV. **Generic Elective (GE) Course:** An elective course chosen generally from an unrelated discipline/subject, with an intention to add generic proficiency to the students.

Note: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa and such electives may also be referred to as Generic Elective.

Elective Course(s) may also be called an “**Open Elective**”

- V. **Foundation Course:** The Foundation Courses may be of two kinds: Compulsory Foundation and Elective foundation. “Compulsory Foundation” courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines.
- VI. **Ability Enhancement Courses (AEC):** The Ability Enhancement (AE) Courses may be of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). “AECC” courses are the courses based upon the content that leads to Knowledge enhancement; i. Environmental Science and ii. English/MIL Communication. These are mandatory for all disciplines. SEC courses are value-based and/or skill-based and are aimed at providing hands-on-training, competencies, skills, etc.
 - i. Ability Enhancement Compulsory Courses (AECC): Environmental Science, English Communication/MIL Communication.
 - ii. Skill Enhancement Courses (SEC): These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge.

8. Medium of Instructions:

8.1 The medium of instructions and examination will be English.

8.2 Practical work/Project Work / Project Report / Dissertation / Field Work Report / Training Report etc., if any, should be presented in English.

9. Mode: The program is offered on ‘Full Time’ mode of study only.

10. Attendance Requirement:

- 10.1 Every student is required to attend all the lectures, tutorials, practical and other prescribed curricular and co-curricular activities offered by the Faculty Design and Innovation.
- 10.2 The attendance may be condoned upto 25% on medical grounds or for other genuine reasons beyond the control of students.
- 10.3 A further relaxation of attendance upto 15% for a student may be given by Dean of Faculty provided that he/she has been absent with prior permission of the Dean of the Faculty for the reasons acceptable to him.
- 10.4 No student will be allowed to appear in the end semester examination if he/she does not satisfy the overall average attendance requirements. Further, the attendance shall be counted from the date of admission in the University or start of academic session whichever is later.

11. Credit: A unit by which the course is measured. It determines the number of hours of instruction required per week.

Definition of Credit	
1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
2 Hours Practical (Lab) per week	1 credit

12. Program Structure**Total Credit : 35****Post Diploma in CAD/CAM**

SEMESTER 1							
S. No	Pre-requisite	Course Code	Course Name	Contact hours			Total Credits
				L	T	P	
1	N.A.	PDC101	Material Process & Production	3	0	0	3
2	N.A.	PDC102	Introduction to AutoCAD	1	0	4	3
3	PDC101	PDC103	CATIA for Mechanical Designers	1	0	6	4
4	N.A.	PDC104	Fused Deposition Modelling Technology (3D Printer)	1	0	2	2
5	N.A.	PDC100	Industrial Training and Report	0	0	0	4
TOTAL							16

SEMESTER 2							
S. No	Pre-requisite	Course Code	Course Name	Contact hours			Total Credits
				L	T	P	
1	PDC101	PDC201	STEM in Technology Systems	2	0	0	2
2	PDC102	PDC202	CREO for Design Engineers	1	0	6	4
3	N.A.	PDC203	CAM Technology	1	0	6	4
4	PDC103, PDC202	PDC204	Tool Design	2	0	6	5
5	PDC102	PDC205	Advance Computer Aided Drafting	1	0	6	4
TOTAL							19

13. Examination/Continuous Assessment System (CAS):

For CAS two assessment components are adopted to evaluate student's performance.

13.1 Internal Assessment, which includes attendance, mid semester examination and other components (Assignment, Snap Test, Project, Presentation/ Class Participation, Practical Lab Continuous Assessment, Quiz, Multiple Choice Questions, Case Study, Field Survey/Field Report etc.) carrying a weightage of 40%.

13.2 External Assessment i.e. End Semester Examination, carrying a weightage of 60%.

13.3 Every student has to score at least 25% marks each in Continuous Assessment and End Semester examination. The minimum pass percentage is 40% in aggregate. In case a student scores more than 25% each in Continuous Assessment and End Semester Examination, but overall percentage in the concerned subject remains less than 40%, then student has to repeat End Semester Examination in that subject.

14. Grading System: University follows eight letter grading system (A+, A, B+, B, C+, C, D, and F) that have grade points with values distributed on a 10 point scale for evaluating the performance of student. The letter grades and the corresponding grade points on the 10-point scale are as given in the table below. If number of passing students in any subject is less than or equal to 30 then Absolute Grading System will be followed otherwise Relative Grading System will be followed for evaluation.

NB: The CGPA can be converted to percentage by using the given formula:

$$\text{CGPA} \times 10 = \%$$

e.g. $7.8 \times 10 = 78\%$

Note: Cumulative Grade Point Average (CGPA), it is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points

secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

Academic Performance	Range of Marks	Grades	Grade Points	Remarks
Outstanding	≥ 90	A+	10	
Excellent	≥ 80 & < 90	A	9	
Very Good	≥ 70 & < 80	B+	8	
Good	≥ 60 & < 70	B	7	
Fair	≥ 50 & < 60	C+	6	
Average	> 40 & < 50	C	5	
Minimally Acceptable	40	D	4	
Fail	< 40	F	0	
Incomplete		I	-	
Withdrawal		W	-	
Grade Awaited		GA	-	
Minor Project		S/US	-	S- Satisfactory, US- Unsatisfactory

- 15.** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (Course title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.
- 16. Re-appear:** Student with backlog of one semester will be carried forward to next semester. Re-appear examinations will be conducted twice in a year after ESE of every semester.
- 17. Improvement of overall Score:** A candidate having CGPA < 5.5 and wishes to improve his/her overall score may do so within two academic years immediately after passing the degree program by reappearing into maximum four course(s)/subject(s). The improvement would be considered if and only if the CGPA becomes > 5.5 .

18. Program qualifying criteria: For qualifying the Program every student is required to earn prescribed credits (i.e. 35). If any student fails to earn prescribed credits for the program then he/she will get a chance to complete his/her Program in two more years than the actual duration of degree.

19. Revision of Regulations, Curriculum and Syllabi: The University may revise, amend, change or update the Regulations, Curriculum, Syllabus and Scheme of examinations through the Board of Studies and the Academic Council as and when required.