

ORDINANCE - 76

(AMENDED ORDINANCE)

GOVERNING THE AWARD FOR THE
DEGREE OF

MASTER OF TECHNOLOGY

IN THE SCHOOL OF STUDIES OF
ENGINEERING AND TECHNOLOGY

GURU GHASIDASVISHWAVIDYALAYA (A
CENTRAL UNIVERSITY), BILASPUR (C.G.)

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**AMENDED ORDINANCE
FOR
GOVERNING THE COURSES
FOR THE AWARD OF M.TECH. DEGREE
IN THE SCHOOL OF STUDIES OF ENGINEERING AND TECHNOLOGY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**

1.0 TITLE AND COMMENCEMENT

- 1.1 Ordinance governing the Award of the Degree of Master of Technology under the School of Studies of Engineering and Technology as notified from time to time.
- 1.2 This Ordinance shall come into force from Academic Session 2021-22.

2.0 DEFINITION AND KEY WORDS

- 2.1 "**Vishwavidyalaya**" or "**University**" means Guru Ghasidas Vishwavidyalaya (A Central University established by the Central Universities Act, 2009 No. 25 of 2009) located at Koni, Bilaspur, Chhattisgarh.
- 2.2 "**Student**" means one who has been admitted in the two years M.Tech. Programme of this University through Centralized Counselling for M.Tech (CCMT) or by any other procedure as notified by the regulatory bodies of Government of India and or the University from time to time.
- 2.3 "**Academic Year**" means two consecutive (one odd and one even) semesters.
- 2.4 "**Choice Based Credit System (CBCS)**" means a program that provides choice for students to select from the prescribed courses such as Professional Core, Professional Elective, Open Electives, and Audit/Mandatory Courses, MOOC courses etc. as per the guidelines issued by AICTE/UGC/regulatory bodies where ever applicable and as approved by the appropriate bodies of the University.
- 2.5 "**Course**" means "papers & field/laboratory training" through different modes of delivery and is a component of a programme as detailed out in the respective programme structure.
- 2.6 "**Credit Point**" means the product of grade point and number of credits for a course.

- 2.7 "**Credit**" means a unit by which the course work is measured. It determines the number of hours of teaching/instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) per week or two hours of practical work/field work/project etc. per week. The number of credits for each course shall be defined in the respective scheme of examination.
- 2.8 "**Semester Grade Point Average (SGPA)**" means a measure of performance of a student in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total credits of all courses during the semester. It shall be expressed up to two decimal places.
- 2.9 "**Cumulative Grade Point Average (CGPA)**" means a measure of overall cumulative performance of a student in all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and sum of the total credits of all courses in all semesters. It is expressed up to two decimal places;
- 2.10 "**Grade Point**" means a numerical weight allotted to each letter grade on a 10 point scale or as prescribed by the AICTE/UGC/University from time to time.
- 2.11 "**Letter Grade**" means an index of the performance of students in a course. Grades are denoted by letters O, A+, A, B+, B, C, P, F and Ab.
- 2.12 "**Semester**" means an academic session spread over 12-16 weeks of teaching work with minimum 90 teaching days. The odd semester may normally be scheduled from July to December and even semester from January to June.
- 2.13 "**Grade Card**" means a certificate based on the grades earned. Grade certificate shall be issued to all enrolled students after every semester. The grade certificate will contain the course details (code, title, grade point, credits, credit point, letter grade) along with SGPA of the semester and CGPA earned till that semester. However, the final result will be based on the grades/CGPA.
- 2.14 "**Transcript**" means a certificate issued to all enrolled students in a program after successful completion of the program. It contains the SGPA of all semesters and the CGPA.

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3.0 ADMISSION

- 3.1 A candidate who has obtained B.Tech./B.E. or an equivalent degree approved from a recognized Institute/University in India or abroad in the appropriate branch of Engineering shall be eligible for admission to the M.Tech.course.
- 3.2 Admission to M.Tech. Programme of this University shall be made through the Centralized Counselling for M.Tech. (CCMT) conducted by GoI/NIC or by any other procedure as notified by the regulatory bodies of Government of India and or the University from time to time.
- 3.3 Reservation and relaxation norms for EWS/OBC/SC/ST/PWD candidates, as specified by the Government of India/ UGC shall be followed for admission in all M.Tech. Programmes.
- 3.4 Foreign nationals either residing in India or abroad or Indian nationals residing abroad may be admitted to PG Programme according to the policy guidelines laid down by the Government of India and/or the Executive Council from time to time.
- 3.5 The supernumerary quota if any shall be decided by the competent authority of the University from time to time. Under this quota a limited number of candidates sponsored by the Governments/Public Sector undertakings/ Universities/Colleges/R&D Laboratories/Educational Institutions of repute as well as well-established Industries, who fulfill the minimum eligibility criteria as per Clause 3.1, are eligible for admission to the M.Tech. courses, provided that the candidates have the work experience of two years in a regular service or more and that the sponsors give an undertaking, in the specified format of the University, that the sponsors would permit the candidates to rejoin them after the completion of the course or at least two semesters of the course. The maximum age limit of such candidate is 45 years.

4.0 DURATION, SCHEME OF COURSES AND EXAMINATION

- 4.1 The duration of M.Tech. course, counted from the date of commencement of classes, shall be of 24 months (Four Semesters) for 'regular' (full-time) students. However, the maximum permissible time duration for the completion of the

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M.Tech. programmes will be three (3) years, except for student covered under Clause 6.7.

- 4.2 The Scheme of Examination of each Programme shall be as per Choice Based Credit System (CBCS) as adopted by the University and approved by the respective Board of Studies, School Board and the Academic Council and shall have the flexibility of revision or modification. The scheme shall consist of Professional Core, Professional Elective, Open Electives, and Audit/Mandatory Courses or any other courses suggested by AICTE from time to time.
- 4.3 The number of total credits to be earned by a student for completion of the M.Tech. programme of any department shall not be less than 68, as approved by the Board of Studies of the concerned department. However if the student wish to earn extra credits through the course offered by the other departments of the University/ MOOC on SWAYAM, he/she may be allowed.
- 4.4 (a) **Enrolment in the University:** Every student admitted to the programmes shall apply on a prescribed form through his/her respective Head of the Department to the Controller of Examinations for enrolment together with all necessary documents such as Migration Certificate (in original) /Transfer Certificate (in original), as the case may be, and copies of other required academic certificates. The Controller of Examinations will provide him/her an Enrolment Number after completing all necessary formalities. The Enrolment Number will be the permanent reference number in all records of the University pertaining to the concerned student.
- (b) Students admitted to a semester shall register themselves in the beginning of the semester in the respective departments.
- (c) In each semester, a last date for admission/re-admission/registration shall be fixed and notified by the Dean of the School of Studies of Engineering & Technology in the beginning of the semester after which students shall not be ordinarily permitted. This is also applicable for the students governed by Clauses 6.7 & 6.8.

5.0 ATTENDANCE REQUIREMENT

- 5.1 A Student shall be required to attend at least 75% of the classes actually held in the semester which may include theory class, seminars, and practicals, as may be prescribed.

Provided that the Dean of the School concerned on the recommendations of the Head of the Department may condone the shortage in attendance not exceeding 10% due to one or more of the following reasons.

- (i) Participation in NCC/NSS Camps, duly supported by a certificate issued from the OC, NCC/In charge, NSS.
- (ii) Participation in University Team(s)/Games or Inter-state or Inter-University tournament(s) duly supported by a certificate from appropriate authority of the University.
- (iii) Participation in Educational Excursions conducted on working days certified by the Dean or the Head of the Department/Coordinator of the School. These excursions shall not include those organized for the class as a whole.
- (iv) Participation in any of the co-curricular activities organized by the Institute/Department/ School, duly certified by the competent authority;
- (v) Deputed/nominated by the University for Youth Festival certified by the Dean.
- (vi) Prolonged illness duly certified by the Registered Medical Practitioner.
- (vii) Any other cogent reason up to the satisfaction of the Head of the Department/Coordinator of Schools/ Dean.

A student who does not satisfy the requirement of attendance as above, he/she will be detained due to shortage of attendance in a particular semester and he/she will have to repeat the same semester taking re-admission as a regular student in the next commencing academic session.

6.0 EXAMINATION AND EVALUATION

6.1 The academic performance of a candidate shall be evaluated in respect of the courses of study prescribed for each semester. The evaluation of students admitted in any of these Programs shall be based on;

- (i) Continuous Internal Assessment, and
- (ii) End Semester Examinations.

The distribution of weightage of the various components of evaluation for each subject shall be as follows:

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Theory:

(i) Class quizzes, home assignments	10%
(ii) At least two periodical tests each of 1 hour duration	30%
(iii) Semester examination of not less than 3 hours duration	60%
Total:	----- 100%

Practical

(i) Internal Evaluation	40%
(ii) End Semester Examination	60%
Total:	----- 100%

Subjects where no class work is involved

Dissertation stage I Evaluation

.....200 Marks

Dissertation - Interim Evaluation	100 Marks	Internal
Dissertation - Final Evaluation	100 Marks	Internal [40% (Supervisor) + 60% (Examiners)]

Dissertation stage II Evaluation

..... 300 Marks

Dissertation - Interim Evaluation	100 Marks	Internal
Dissertation - Open defense evaluation	200 Marks	40% (Internal) + 60% (External)

6.2 The end semester examinations of I and III Semester will be held normally in November/December and II Semester examination will be held in April/May in every academic session, or as decided by the University from time to time. The dissertation Stage IV shall be submitted for evaluation ordinarily before the end of IV Semester or as the date notified by the Dean and 'dissertation - open defense' shall be held after the submission of the dissertation.

6.3 I and II Semester supplementary examinations shall be held ordinarily in July/August, or as decided by the University from time to time. However, the

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dates for the III and IV Semester supplementary examination(s) will be normally within three months of the declaration of the result of the concerned semester examination(s). The evaluation for the End Semester Examinations of III Semester shall be done internally.

- 6.4 For evaluation of End Semester practical examination of a subject, there shall be a panel of two examiners appointed by Head of the department. All the two examiners shall be internal from the concerned department of the School of Studies of Engineering & Technology.
- 6.5 In case a student is found adopting or suspected of adopting unfair means before the start of the examination or during the examination or even after the examination, the matter will be reported to the Controller of Examinations for the necessary action.
- 6.6 The topic of dissertation for each student shall be allotted in the second semester. The topic will normally be the same for III and IV semesters. However, a committee comprising of the Supervisor and the Board of Examiners of the Department may permit minor modifications in the topic, if required.
- 6.7 A student can pursue part/full of the dissertation work at an R&D/industrial organization of repute, to be referred to as 'external centre', under the joint supervision of the supervisor(s) of the Department to be designated as 'internal supervisor(s),' and the supervisor(s) of the external centre, to be designated as 'external supervisor(s).' However, such joint supervision shall be allowed with the permission of the Head of the Department on the recommendation of the internal supervisor(s) and the consent of the external supervisor(s). Such a student shall work for his or her dissertation in the Department for a period of at least 4 (four) months during the third and fourth semesters put together. Further, he or she shall submit to the Head of the Department a monthly progress report of the work carried out by him or her at the external centre duly approved by the external supervisor(s) and forwarded by a competent authority of the external centre as well as by the internal supervisor(s).

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- 6.8 A student who carries part/full of the dissertation work at an external centre as per Clause 6.7 shall register for III and IV Semesters in accordance with Clauses 4.4(b) and (c) and shall also appear for III Semester Examination on the dates specified by the University and submit the dissertation in the IV Semester and appear at the 'dissertation – open defense' after the submission of dissertation.
- 6.9 A student can take up gainful employment in an R&D/industrial organization of standing after passing I and II Semester examinations and can complete the M.Tech. course by taking admission/re-admission to III and IV Semesters of an academic year and pursuing the course as a regular student. However, the period for completion of the course for such a student shall not exceed 4 years from the date of his or her first admission to the M.Tech. course and in no case he or she shall be entitled to Fellowship.
- 6.10 The Program shall have a specified number of credits in each semester. The number of credits along with grade points that the student has satisfactorily cleared shall measure the performance of the student. Satisfactory progress of a student is subject to his/ her maintaining a minimum Cumulative Grade Point Average (CGPA), as well as minimum grades in different courses of the program as given in table which a student, if obtains is, eligible for the award of degree.

7.0 CALCULATION OF SEMESTER GRADE POINT AVERAGE (SGPA) AND CUMULATIVE GRADE POINT AVERAGE (CGPA)

- 7.1 The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$SGPA = \frac{\sum C_i \times G_i}{\sum C_i}$$

Where, C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

- 7.2 The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

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$$CGPA = \frac{\sum C_i \times S_i}{\sum C_i}$$

where, S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

7.3 The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

7.4 **Grading system:-** The grading system, as detailed here under in Table shall be applicable for each course:

Range of % of marks	Grade points	Letter Grade	GRADE
>90 - ≤100	10	O	Outstanding
>80 - ≤90	9	A+	Excellent
>70 - ≤80	8	A	Very Good
>60 - ≤70	7	B+	Good
>50 - ≤60	6	B	Above Average
>40 - ≤50	5	C	Average
= 40	4	P	Pass
0 - <40	0	F	Fail
Absent	0	Ab	Fail

Description

Letter grades **O**, **A+**, **A**, **B+**, **B**, **C**, and **P** in a course mean that the student has passed that course. The grade **F** denote FAIL and **Ab** denotes absence or non-appearance of the student in the examination.

8.0 DECLARATION OF RESULTS AND PROMOTION RULES

After the completion of the evaluation of courses in each semester the controller of examinations shall declare the results.

8.1 For passing I and II Semesters, a student must obtain a minimum Grade point ≥ 4 in each subject and an SGPA of 5.0 or more. For passing III Semester, a student must obtain a Grade point ≥ 6 in dissertation – stage I evaluation. For passing IV semester, a student must obtain a Grade point ≥ 6 in dissertation – stage II

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evaluation.

The final result of the Master's Degree Examination shall be declared on the basis of CGPA after IV Semester examination, as follows:

CGPA	CLASS
$8.00 < CGPA \leq 10.0$	- First Class with Honours
$6.50 < CGPA \leq 8.0$	- First Class
$5.00 < CGPA \leq 6.50$	- Second Class
$0.0 < CGPA \leq 5.00$	- Failed

8.2 The Grade Card / Mark Sheet shall also show the result of the student as "Semester Course Passed/Failed", as the case maybe.

The Grade Card / Mark Sheet issued at the end of IV Semester, in addition, shall show the final result of the student; as per clause 8.1.

8.3 If equivalence between the SGPA/CGPA and the percentage of marks needs to be drawn for the purpose of informing the results of a student to external agencies, the following conversion formula shall be used: $X = 10 \times Y$

Where X is the equivalent percentage of marks and Y is the SGPA/CGPA

8.4 A student who fails or not appeared in the examination on genuine medical grounds, in I and/ or II semester examination(s) is eligible to appear in the immediately following supplementary examination(s). However, if he or she is unable to pass I and II Semesters even after appearing in the supplementary examination(s), he or she shall not be permitted to continue the M.Tech.course.

8.5 A student who fails Dissertation Stage I in III semester shall appear within three months of the declaration of the result in the supplementary examination by presenting a revised report for 'dissertation final evaluation'.

8.6 A student who fails Dissertation Stage II in IV Semester shall appear within three months of the declaration of the result in the supplementary examination by presenting a revised dissertation for Open defense and evaluation.

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- 8.7 A student who appears more than once in any subject of any examination forming a part of the course or does not submit dissertation within the period of 24 months from the date of commencement of classes (as per Clause 4.1), shall not be ranked at the examination of that course of study irrespective of his/her performance.
- 8.8 If a student has cleared all the Theory and Practical subjects of first or/and second semester, but has failed to secure SGPA of 5.0 in the first or/and second semester then he/she will be allowed to re-appear in the supplementary examination in those subjects in which the student's Grade Point is less than 5. If the student fails to secure SGPA of 5.0 even after the supplementary examination, he/she will not be permitted to continue the M.Tech. Programme.
- 8.9 A student admitted to I Semester Examination shall be promoted to II Semester irrespective of whether he or she passes, fails or fails to appear on genuine medical grounds, in the examination.
- 8.10 A student shall be promoted to III Semester only after he/she secures SGPA of 5.0 and above in the I and II Semesters.
- 8.11 A student admitted to III Semester examination shall be promoted to IV Semester irrespective of whether he/she passes, fails or fails to appear on genuine medical grounds, in the examination. However, such a student shall be admitted to IV Semester examination only after passing III Semester examination.
- 8.12 Fellowship, assistantship & leaves will be governed by the University/UGC/AICTENorms notified from time to time.

9.0 INTERPRETATION

In case of any dispute in the matter of interpretation of this Ordinance, the decision of the University shall be final and binding on the students.

10.0 POWER TOMODIFY

Notwithstanding all that has been stated above, the Academic Council of the University has the right to propose any modifications or amendments to the competent authority of the University for final decision of the above regulations and further actions from time to time.