

UNIVERSITY OF MUMBAI
No. UG/140 of 2015-16

CIRCULAR:-

A reference is invited to the Ordinances and Regulations relating to the Bachelor of Engineering (B.E) degree course **vide** this office Circular No.UG/88 of 2012-13, dated 8th November, 2012 and the Principals of affiliated Colleges in Engineering are hereby informed that the recommendation made by the Faculty of Technology at its meeting held on 26th August, 2015 has been accepted by the Academic Council at its meeting held on 31st August, 2015 **vide** item No. 2.1 and that in accordance there with in exercise of the powers conferred upon Management Council under Section 54 (1) of the Maharashtra Universities Act, 1994, the Ordinance 6242, 6243, 6244, 6245, 6246, 6247, 6248, 6249, 6250, 6251, 6352, 6253, 6254, 6255, 6256, 6257, 6258, 6259, 6260, 6261, 6262, 6263 relating to the Credit Based Semester and Grading System of B.E. Program are amended, which is available on the University's web site (www.mu.ac.in) and which is come in to force with immediate effect.

Sd/-
REGISTRAR

MUMBAI – 400 032
3rd February, 2016

To,

The Principals of affiliated Colleges in Engineering.

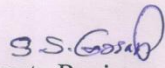
A.C/ 2.1/31/08/2015.

No. UG/140-A of 2016

MUMBAI-400 032 3rd February, 2016

Copy forwarded with compliments for information to:-

1. The Dean, Faculty of Technology,
2. The Chairmen/Chairpersons of various Board of the Studies in Engineering and Technology.
3. The Director, Board of College and University Development,
4. The Controller of Examinations,
5. The Co-Ordinator, University Computerization Centre.


Deputy Registrar
Under Graduate Studies

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UNIVERSITY OF MUMBAI

Ordinances for Bachelor of Engineering (B. E.) Full Time Degree course with Credit Based Grading System (CBGS) for Rev – 2012 syllabus effective from A. Y. 2012-2013

The revised curriculum and credit based grading system is implemented for Bachelor of Engineering programme in the University of Mumbai from the academic year 2012-2013. In view of this it is essential to modify and amend the regulations applicable to Bachelor of Engineering programme and these are as given below as ordinances:

ORDINANCES RELATED TO ADMISSION:

0.6242:- A learner who has passed semester I and Semester II examinations of engineering will be permitted to enter upon the program for semester III of second year engineering. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester I and Semester II considered together will also be permitted to enter upon the program for Semester III of second year engineering.

0.6243:- A learner who has passed semester I to semester IV examinations will be permitted to enter upon the program for semester V of third year engineering. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester III and Semester IV considered together will also be permitted to enter upon the program for Semester V of third year engineering provided he / she has passed semester I and semester II examinations of first year engineering.

0.6244:- A learner who has passed semester I to Semester VI examinations will be permitted to enter upon the program for semester VII of final year engineering. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester V and Semester VI considered together will also be permitted to enter upon the program for semester VII of final year engineering provided s/he has passed all examinations up to and including semester IV.

0.6245:-Notwithstanding anything contained in 0.3711R and 0.3712R a learner who has satisfactorily kept term for semester VI of the Third Year production Engineering program shall be deemed eligible to undergo training in industry if arranged during semester VII of final year engineering . However, s/he will be eligible to join semester VIII of the program provided s/he has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester V and Semester VI considered together and has passed all examinations up to and including semester IV previously. The word ‘previously’ refers to semester I, Semester II, Semester III and Semester IV examinations conducted no later than the first half of the year or training.

ORDINANCES RELATED TO EXAMINATION:

0.6246:- Internal Assessment, End semester examination, Practical and / or oral will be considered as separate Head of passing prescribed in the scheme of instructions and examinations. **Term Work** is not a **separate head of passing**; however a learner is **eligible to appear** for any form of **examination** only after **satisfactorily completion of Term Work in all courses** of a particular semester as per scheme of instructions and examinations.

0.6247:-A learner for being eligible to appear for semester III of the second year Engineering Examination should have satisfactorily kept the term for semester III and passed in semester I and Semester II examination. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester I and Semester II considered together will also be permitted to appear for semester III examination.

0.6248:- A learner for being eligible to appear for semester IV of the second Years Engineering examination should have satisfactorily kept the term for semester IV and passed all examinations upto semester III. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester I, Semester II considered together and kept the terms for semester III will also be permitted to appear for semester IV examination.

0.6249:- A learner for being eligible to appear for semester V of the Third year Engineering Examination should have satisfactorily kept the term for semester V and passed all examinations

upto semester IV. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester III and Semester IV considered together will also be permitted to appear for semester V examination.

0.6250:- A learner for being eligible to appear for semester VI of the Third Year Engineering Examination should have satisfactorily kept the term for semester VI and passed all examinations upto semester V. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester III and Semester IV considered together and kept the term for semester V will also be permitted to appear for semester VI examination.

0.6251:- A learner for being eligible to appear for semester VII of the Final Year Engineering examination should have satisfactorily kept the term for Semester VII and passed all examinations upto semester VI. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester V and Semester VI considered together will also be permitted to appear for semester VII examination.

0.6252:- A learner for being eligible to appear for semester VIII of the Final Year Engineering Examination should have satisfactorily kept the term for semester VIII and passed all examinations upto semester VII. However, a learner who has failed in not more than **eight heads** of passing of which not more than **five** shall be in End Semester Examinations of Semester V and Semester VI considered together and kept the term for semester VII will also be permitted to appear for semester VIII examination.

0.6253:- To pass in the individual courses of semester I to VIII examinations of first to final year of engineering, a learner must obtain a minimum of 40 % of the full marks. The minimum of 40 % of the full marks must be obtained in the Internal Assessment, End semester examination, practical and oral examination separately in each course as applicable.

Or

A learner also pass in individual courses even if s/he **fails** in **Internal Assessment** but secure **more than 50% in total (Internal Assessment + End Semester Examination)** in that course.

0.6254:- A learner who fails in an examination, but secures a minimum of 40 % of the marks assigned to the Internal Assessment, End semester examination, practical and/or oral examination in a course will at his / her option be exempted from reappearing in the Internal Assessment, End semester examination, practical and/or oral examination in that course. The marks secured by such a learner in the Internal Assessment, End semester examination, practical

and/or oral examination will be carried forward to the subsequent examination at which s/he reappears.

0.6255:- Credit (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for laboratory hours. The minimum credit required for award of a B.E. degree is **180**.

0.6256:- Rating of learner's performance in a theory course should be done by using various modes of assessment, which mainly include Internal Assessment and End Semester Examination. Relative weightage for Internal Assessment is typically 20 per cent. This will consist of two class tests.

The relative weightage for end semester examination is 80 % and will be held as per the university schedule. The end semester examination is mandatory.

0.6257:- A learner is awarded a letter grade in every course, based on the combined performance in all assessments in a particular semester as per scheme of instructions and examinations of the respective programme. These letter grades not only indicate a qualitative assessment of the learner's performance but also carry a quantitative (numeric) equivalent called the Grade Point. The letter grades and their equivalent grade point applicable for undergraduate programme are as below:

Percentage of Marks Obtained	Letter Grade	Grade Points	Performance
80.00 and above	O	10	Outstanding
75.00 – 79.99	A	9	Excellent
70.00 – 74.99	B	8	Very Good
60.00 – 69.99	C	7	Good
50.00 – 59.99	D	6	Fair
45.00 – 49.99	E	5	Average
40.00 – 44.99	P	4	Pass
Less than 40.00	F	0	Fail

0.6258:- The **grade** for **theory courses** can be **awarded** only after **successfully completion** of both **Internal Assessment** and **End Semester Examination** of the respective course as per scheme of instructions and examinations of the respective programme.

0.6259:- A learner who remains **absent** in any form of **evaluation/examination, letter grade** allocated to him/her should be **AB** and corresponding **grade point** is **zero**. S/he should reappear for the said evaluation/examination in due course.

0.6260:- The performance of a learner in a semester is indicated by a number called Semester Grade Performance Index (SGPI). The SGPI is the weighted average of the grade points obtained in all the courses by the learner during the semester. For example, if a learner passes five courses (Theory/labs./Projects/ Seminar etc.) in a semester with credits C_1, C_2, C_3, C_4 and C_5 and learners grade points in these courses are G_1, G_2, G_3, G_4 and G_5 respectively, then learners SGPI is equal to:

$$SGPI = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPI is calculated to two decimal places. The SGPI for any semester will take into consideration the “**F** or **AB**” grade awarded in that semester. For example if a learner has failed in course 4, the SGPI will then be computed as:

$$SGPI = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4 * ZERO + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

0.6261:- A learner’s up to date assessment of the overall performance from the time s/he entered for the programme is obtained by calculating a number called the Cumulative Grade Performance Index (CGPI), in a manner similar to the calculation of SGPI. The CGPI therefore considers all the courses mentioned in the scheme of instructions and examinations, towards the minimum requirement of the degree learner have enrolled for. The CGPI is calculated at the end of every semester up to two decimal places and is indicated in semester grade report cards.

The CGPI will reflect the **failed status** in case of **F grade(s)**, till the course(s) is/are **passed**. When the **course(s)** is/are **passed** by obtaining a **pass grade** on subsequent examination(s) the **CGPI** will only reflect the **new grade** and not the **fail grades** earned earlier.

Example: Up to semester “**r**” a learner has registered for **n** courses, among which s/he has “**F**” grade in **ith** course. The semester grade report at the end of semester **r** therefore will contain a CGPI calculated as:

$$CGPI = \frac{C_1G_1 + C_2G_2 + C_3G_3 + \dots + C_i * ZERO + \dots + C_nG_n}{C_1 + C_2 + C_3 + \dots + C_i + \dots + C_n}$$

Even if a learner has **failed** in a course **more than once**, the course will figure **only once** in the **numerator** as well as the **denominator**. At the end of semester $r+1$ s/he has appeared for examination for k number of courses including the i^{th} **backlog course** and has cleared all the courses including the **backlog course**, the CGPI at the end of this semester is calculated as,

$$CGPI = \frac{C_1G_1 + C_2G_2 + C_3G_3 + \dots + C_i * G_i + \dots + C_nG_n}{C_1 + C_2 + C_3 + \dots + C_i + \dots + C_n}$$

There will also be a **final CGPI** calculated which considers **all the credits earned** by the learner specified for a particular programme.

0.6262:-

A Learner who has passed the Bachelor of Engineering degree examination of the university and who wish to improve their CGPI be permitted to appear again for the same examination with the same courses. The learner may appear Semester VII and VIII together or separately but all courses of semester VII together and all courses of semester VIII together without being required to keep any term again. This provision shall be applicable subsequent to the first passing of the degree examination for not more than three consecutive examinations conducted by the University. Marks obtained by the candidate in term-work, internal assessment, practical and/or oral examination, seminar and project of semester VII and semester VIII shall be carried forward for not more than three consecutive examinations.

0.6263:-A learner who has passed the Bachelor of Engineering degree examination of the university and wish to improve CGPI at any point of time be permitted to appear again for the existing examination with the available courses at that point of time. The learner may appear Semester VII and VIII together or separately but all courses of semester VII together and all courses of semester VIII together without being required to keep any term again. Marks obtained by the candidate in term-work, internal assessment, practical and/or oral examination, seminar and project of semester VII and semester VIII whichever applicable shall be carried forward.
