

**ORDER NO. SU/ Engg & Tech./ Ord., Regu./03/2016**

Whereas the Co-ordinator recommended to enforce the Bachelor of Engineering and Bachelor of Technology (B.E. & B.Tech.) under Choice Based Credit and Grading System Ordinances No.-945 to 956 and Regulations-2079 to 2101 pertaining to Admission Rules, Scheme of Examination and Standard of Passing etc. to be implement from the academic year 2016-17 & onwards under the Faculty of Engineering & Technology.

**AND**

WHEREAS the said Ordinances and Regulations are yet to be considered by the Academic Council and Management Council, it will take quite some time and there after to be assented to by the Hon'ble Chancellor.

**AND**

WHEREAS the Section-14[8] of the Maharashtra Universities Act, 1994 empowers the Vice-Chancellor to regulate the matter for the time being by issuing such directives as he thinks necessary.

**AND**

THEREFORE, I, PROF. B.A. CHOPADE, VICE-CHANCELLOR of Dr. Babasaheb Ambedkar Marathwada University, in exercise of the powers conferred on me under Section-14[8] of the Maharashtra Universities Act, 1994, in order to regulate the matter urgently hereby direct that the said Ordinances and Regulations shall be effective from the Academic Year 2016-2017 and onwards are enclosed as per Appendix-"A & B".

THESE, directives shall have **immediate effect** and shall be operative till such time as the Regulations are to be accepted by the Management Council and Ordinances are to be assented to by the Hon'ble Chancellor.

University Campus,  
Aurangabad-431 004.  
REF.NO. SU/ ENGG.& TECH./  
2017/ 6621 -51

Date:- 16-01-2017.

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Prof. B.A. Chopade,  
Vice-Chancellor.

**Copy forwarded with compliments for information and necessary action to :-**

- 1] The Head, Department of Chemical Technology,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 2] The Principal, affiliated colleges,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Copy to :-

- ✓ 1] The Controller of Examinations,
- 2] The Finance and Accounts Officer,
- 3] The Deputy Registrar, Post Graduate Section,
- 4] The Superintendent, [ Engineering Unit ],  
Examinations Branch,
- 5] The Superintendent, [Eligibility Unit],
- 6] The Record Keeper,  
Dr. Babasaheb Ambedkar Marathwada University.

**RULES AND REGULATIONS  
FOR  
BACHELOR OF ENGINEERING (BE) PROGRAMME  
(Effective from Academic Year 2016-2017)**



**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad**

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**RULES, REGULATIONS AND ORDINANCES**

**B. E. PROGRAMME**

## RULES, REGULATIONS AND ORDINANCES

### 1. Short Title and Commencement

- i) These ordinances shall be called the Ordinances for Bachelor of Engineering Programme run by the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ii) These ordinances shall come into force with effect from such date as approved by the authorities of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

### 2. Definitions

Unless the context requires otherwise,

- a) **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses).
- b) **Credit Point:** It is the product of grade point and number of credits for a course.
- c) **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point
- d) **“Letter Grade”:** It is an index of the performance of students in a said course. Grades are denoted by letters A++, A+, A, B+, B, C+, C and D.
- e) **“Applicant”** shall mean an individual who applies for admission to any B. E. Programme.
- f) **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.
- g) **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- h) **“Course”:** All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials / laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
- i) **“Course Coordinator”** shall mean a faculty member who shall have full responsibility for the course, coordinating the work of other faculty member(s) involved in that course, including examinations and the award of grades.
- j) **“Degree”** shall mean the Bachelor’s degree viz. B. E. and such other degrees of the university as may be approved by the authorities concerned.
- k) **“Direct Admitted Student”** shall mean a student who is admitted directly to second year of the degree program after completion of the Diploma Course and admitted for undergraduate programme for full time study leading to B. E. degree.
- l) **“Programme”** means offering of the University for the Award of degree in a specific branch of study.
- m) **“Student”** shall mean a candidate admitted for an undergraduate programme for full time study leading to Bachelor’s degree.
- n) **“Scheme of Teaching and Examination”** shall mean the scheme of teaching and examination for a

curricula and extra-curricular activities. The Principal of the college shall approve these standing orders.

xiii) Notwithstanding anything contained in the above ordinances, no regulations shall be made in contravention of the directives of the Government of Maharashtra, in regard to the duration of the UG programme.

An elective may be “Generic Elective” focusing on those courses which add generic proficiency to the students. An elective may be “Discipline Centric” or may be chosen from an unrelated discipline. It may be called an “Open Elective.”

### 3. 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. Elective Foundation courses are value-based and are aimed at man-making education.

### b) Course Codes

The course offered by the Departments shall have an alphanumeric course code consisting of a string of six characters. The first three characters in a course code shall be capital letters identifying the responsible department offering the course. The next three numerical digits give the following information. The first digit specifies the year of study of the UG course. Second and third digit specifies the serial number of the Course.

#### Proposed Coding System of Course/Paper

##### Six digit code for a Course (UG courses)

1	2	3	4	5	6
Branch			Year	Course No.	
CED			1 First year UG	Semester I	
MED			2 Second year UG	1 -20 Theory	
EEP			3 Third year UG	21-30 Practical	
ECE			4 Fourth year UG	31-40 Service courses	
EXE			5 Fifth year UG	41-49 Electives	
ETC					
IEX					
PED				Semester II	
CSE				51 -70 Theory	
CTD				71-80 Practical	
COE				81-90 Service courses	
ITD				91-99 Electives	
EED					
EEE					
ARH					
BSH					

### c) Course Credits

Each course shall have an integer number of credits, which reflects its weightage. The number of credits of course in a semester shall ordinarily be calculated as under:-

(a) Lectures: One lecture hour per week shall be assigned one credit.

(b) Practicals: One laboratory hour per week shall be assigned half a credit. Not more than three credits may be assigned to a practical course having only laboratory component. The courses having three hours of

## **Regulation 2081**

### **Monitoring Committee for Undergraduate Program**

Every undergraduate programme of the college shall be monitored by a committee constituted for this purpose by the college. The committee shall consist of Principal as a Chairman and Senior Faculty members as its members.

### **Change of Branch (Specialization)**

As per the rules and regulations specified by competent authority from time to time.

### **Termination of Enrolment on Academic Grounds**

The enrolment of a student may be terminated on disciplinary grounds, in accordance with the Standing Orders of the competent authority.

## **Ordinance 946**

### **Attendance, Absence, Leave Rules and Dismissals**

- i) An undergraduate student must have a minimum attendance of 90 % of the total number of classes including lectures, tutorials and practical, before the corresponding examination i.e. End Semester Examination, in order to be eligible to appear for the respective examination in the course, failing which the student will be detained in the said course and has to re-admit for semester/year.
  - a. In special cases and for sufficient causes shown, the Principal of the college may, on the specific recommendation of the Course coordinator/Head of the Department, condone the deficiency in attendance to the extent of 15 % on medical ground subject to submission of medical certificate
  - b. However, in respect of women candidates who seek condonation of attendance due to pregnancy, the Principal of the college may condone the deficiency in attendance to the extent of 25 % (as against 15 % Condonation for other) on medical grounds subject to submission of medical certificate to this effect. Such condonation shall not be availed twice during the Programme of study.
- ii) Active Participation in N.C.C/N.S.S. Camps or Inter collegiate or Inter University or Inter State or International matches or debates of Educational Excursions or such other Inter University activities as approved by the authorities involving journeys outside the city in which the college is situated will not be counted as absence. However, such 'absence shall not exceed (4) weeks per semester of the total period of instructions. Such leave should not be availed more than twice during the entire Programme of study.
- iii) The attendance shall be calculated on the aggregate of the papers/courses from the date of commencement of the semester.
- iv) In case of the candidates who fail to put in the required attendance in a course of study, he/she shall be detained in the same class and will not be recommended to appear for the University examination.
- v) A candidate detained in semester I should take readmission in next academic year as a regular student and shall have to complete all the theory and practicals as a regular student.
- vi) In case a candidate is detained in semester II, he/she should take admission to Semester II of next academic year and complete all the theory and practicals as a regular student of semester II.
- vii) In case of change of syllabus the candidate even if detained in semester II should take readmission in next

that course code. This rule will be progressively applicable for higher classes in next consecutive years.

- iv) The project work shall be evaluated by midterm seminar(s), quality of work carried out, project report submission and the viva-voce examinations.
- v) Rule for combined passing:
  1. To pass the examination a candidate must obtain minimum 40% of Marks in each End Semester Examination & class test taken together. however the candidate must obtain minimum 35% of Marks in the End Semester Examination.
  2. To pass a Course where there is no provision of class test, the candidate must obtain 40% of Marks in the End Semester Examination.
  3. Minimum two-class tests should be conducted in semester for a Course, if provided. The average performance out of the Two-class test should be forwarded to the Controller of Examinations.
  4. If the candidate remains absent for the class-test, his performance should be treated as 'Zero' Marks.

### **Regulation 2083**

#### **The Grading System**

For every course taken by a student, he/she is assigned a grade based on his/her combined performance in all the assessments including laboratory or any other assignment. The grade indicates a qualitative assessment of the student's performance and is associated with equivalent number called a grade point.

The academic performance shall be graded on a ten-point scale following guidelines given in Appendix-A. The letter grades and their equivalent grade points are listed in the Appendix-A.

The letter Grades (up to F only) awarded to a student in all the courses shall be converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), to be calculated by following the procedures given in Appendix-B.

### **Ordinance 947**

#### **Scrutiny of Grades**

A student may apply for scrutiny of grades to the Controller of Examinations (COE), by paying the specified fees, within seven days from the date of scheduled display of grades. The Faculty Coordinator / Dean will communicate the panel of experts to the Controller of Examinations for checking the entry of the weightage from different components of evaluation and their addition, the addition of marks in the final answer scripts and unchecked questions, etc., if any. Based on recommendations by panel, the Director of evaluation will take appropriate steps for further evaluation of grades/marks. The results of scrutiny may lead to either a change in grade due to error(s) in any of the aspects scrutinized by the committee or the grade may remain unchanged, COE will display the results. In the event of no change in the grade after revaluation, it shall be declared as "No Change".

**Regulation 2087**

**a) Interpretation of Regulations**

In case of any dispute, difference of opinion in interpretation of these regulations or any other matter not covered in these regulations, the decision of the Vice-Chancellor shall be final and binding.

**b) Discretionary Powers**

Notwithstanding anything contained in the above regulations or in any extraordinary situations as the Programme Head and/or Dean think necessary, Principal of the institute may take action on behalf of the university as he/she feels appropriate and report it to the Vice-Chancellor of the university.



## APPENDIX - B

### Ordinance 949

#### Performance Indices

- (i) **Calculation of Semester Grade Point Average (SGPA)** The performance of a student in a semester is indicated by a number called SGPA. The SGPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester.

$$SGPA = \frac{\sum_{i=1}^n C_i P_i}{\sum_{i=1}^n C_i}$$

Where,

$C_i$  = The number of credits assigned in the  $i^{\text{th}}$  course of a semester for which SGPA is to be calculated

$P_i$  = Grade point earned in the  $i^{\text{th}}$  course.

$i = 1, 2, \dots, n$  represent the number of courses in which a student is registered in the concerned semester

The SGPA is calculated to two decimal places.

- (ii) **Calculation of Cumulative Grade Point Average (CGPA)**

An up to date assessment of the overall performance of a student from the time of his first registration is obtained by calculating a number called CGPA, which is weighted average of the grade points obtained in all the courses registered by the student since he/she entered the Institute.

$$CGPA = \frac{\sum_{j=1}^n C_j P_j}{\sum_{j=1}^n C_j}$$

Where,

$C_j$  = The number of credits earned in the  $j^{\text{th}}$  course up to the semester for which CGPA is to be calculated

$P_j$  = Grade point earned in the  $j^{\text{th}}$  course.

$j = 1, 2, \dots, m$  represent the number of courses in which a student is registered up to the semester for which the CGPA is to be calculated

The CGPA is also calculated to two decimal places.

### Ordinance 950

#### Guidelines for the Award of Grades

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

- i) For each student, all evaluations in different components of a course shall be done in absolute marks

## APPENDIX - C

Regulation 2089

a) Equivalence of CGPA and Class

The percentage equivalence of grade points for the ten points scale will be as below.

Class	Range
First Division with Distinction	$CGPA \geq 7.0$
First Division	$7.0 > CGPA \geq 6.0$
Second Division	$6.0 > CGPA \geq 5.0$
Pass Class	$CGPA < 5.0$

b) Percentage Equivalence of CGPA

Wherever necessary the Grade Point Average can be converted to percentage of marks.

Percentage of Marks =  $CGPA \times 10$

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malpractice with a view to obtaining wrongful gain to him or to any other person or causing wrongful loss to other person/s.

- (d) "Unfair means material" means and includes any material whatsoever, related to the Course of the examination, printed, typed, handwritten or otherwise on the person or on clothes, or body of the student (examinee) or on wood or other material, in any manner or in the form of chart, diagram, map or drawing or electronic aid etc. which is not allowed in the examination hall.
  - (e) "Possession of unfair means material by a student" means having any unauthorized material on his/her person or desk or chair or table or at any place within his/ her reach, in the examination centre and its environs or premises at any time from the commencement of the examination till its conclusion.
  - (f) " Student found in possession" means a student reported in writing as having been found in possession of unfair means material by Jr. Supervisor, Sr. Supervisor, member of the Vigilance committee or Examination squad or any other person authorized for this purpose in this behalf, even if the unfair means material is not produced as evidence because of its being reported as swallowed or destroyed or snatched away or otherwise taken away or spoiled by the student or by any other person acting on his behalf to such an extent that it has become illegible.  
Provided that report to that effect is submitted by the Sr. Supervisor of chief Conductor or any other authorized person to the Controller of Examinations, Principal of the college concerned or any officer authorized in this behalf.
  - (g) Material related to the Course of Examination means and includes, if the material is produced as evidence any material certified as related to the Course of examination by a competent person and if the material is not produced as evidence or has become illegible for any of the reasons referred to in clause (f) above, the presumption shall be that the material did relate to the Course of the examination.
  - (h) "Chief Conductor", means and includes Principal of the college concerned where concerned examination is being conducted and any other person duly authorized by him or person appointed as In charge of examination, by the authority competent to make appointment to such post.
4. Where the examination of the University courses are conducted by the constituent college/recognized Institute on behalf of the University, the Principal of the college on receipt of a report regarding use of unfair means by any student at any such examination including breach of the rules laid down by the Management council or by the College/recognized institution for proper conduct of examination, shall have power at any time to institute inquiry and to punish such unfair means or breach of any of the rules by exclusion of such a student from any such examination or any University course in any college/Institution either permanently or for a specified period or by cancellation of the result of the student in the college/recognized Institution examination for which he/she appeared or by deprivation of any college/Institution scholarship or by cancellation of the award of any college/Institution prize or medal to him/her or by imposition of fine not exceeding Rs.300/- or in any two or more of the aforesaid ways.
5. During examination, examinees and other students shall be under disciplinary control of the Chief Conductors.

b) The broad categories of unfair means adopted by students at the University/ College/ Institution examination and the quantum of punishment for each category thereof.

Sr. No.	Nature of Malpractices	Quantum of Punishment
1.	Possession of copying material	Annulment of the performance of the student/s at the University/ College/ Institution Examination in full:- (Note: - This quantum of punishment Shall apply also of the following categories of malpractices at Sr. No. 2, to Sr. No.12 in addition to the Punishment prescribed thereat)
2.	Actual copying from the copying material.	Exclusion of the student from university or College or Institution examination for one additional examination.
3.	Possession of another students Answer Book	Exclusion of the student from University or College or Institution examination for one additional examination (Both the students)
4.	Possession of another students Answer book+ actual evidence of Copying	Exclusion of the student from University or College or Institution examination for two additional examination (Both the Students)
5.	Mutual / Mass copying.	Exclusion of the student from University or College or Institution examination for two additional examinations.
6. (a)	Smuggling out or smuggling in of Answer book as copying material.	Exclusion of the student from University or College or Institution examination for two additional examinations.
6. (b)	Smuggling in of written answer book based on the question paper set at the examination	Exclusion of the student from University or College or Institution. Examination for three additional examinations.
7.	Attempt to forge the signature of the Jr. Supervisor on the answer book or Supplement.	Exclusion of the student from the University or College or Institution examination for four additional examinations.
8.	Interfering with or counterfeiting of University / College/ Institution seal or Answer books. Or office stationery used in the examination	Exclusion of the student from University or College or Institution examination for four additional examinations.
9.	Answer book main or supplement written Outside the examination hall or any other insertion in answer book.	Exclusion of the student from University or College or Institution examination for four additional examinations.

PRACTICAL/DISSERTATION/PROJECT REPORT EXAMS.	
17.	Student involved in malpractices at practical/ dissertation/ project report examination shall be dealt with as per the punishment provided for the theory examination.
18.	The competent authority in addition to the above mentioned punishments may impose a fine not exceeding Rs 300/- on the student declared guilty.
	Note: - The term annulment of performance in full' includes performance of the student of the theory as well as annual practical examination, but does not include performance at term work, project work and dissertation examination unless malpractice used thereat.

#### Instructions for preparing detailed syllabus

- The entire syllabus for 80 marks theory paper should be divided in six units
- The entire syllabus for 40 marks theory paper should be divided in six units
- The syllabus is to be submitted in the format enclosed herewith
- Wherever required the treatment expected either mathematical/theoretical needs to be mentioned
- The total syllabus needs to be of 40 hours teaching for 80 marks theory paper
- The total syllabus needs to be of 20 hours teaching for 40 marks theory paper
- At the end of the syllabus pattern of the question paper as given herewith needs to be mentioned

**Pattern of Question Paper:**

The six/four units in the syllabus shall be divided in two equal parts i.e. 3 units respectively. Question paper shall be set having two sections A and B. Section A questions shall be set on first part and Section B questions on second part. Question paper should cover the entire syllabus.

**For 80 marks Paper:**

1. Minimum ten questions
2. Five questions in each section
3. Question no 1 from section A and Question no 6 from section B be made compulsory and should cover complete syllabus of the respective section and should be set for ten marks each. The Question no.1 and 6 should be of objective nature.
4. Two questions of 15 marks each from remaining questions from each section A and B be asked to solve.

**For 40 marks Paper:**

1. Minimum eight questions
2. Four questions in each section
3. Question no 1 from section A and Question no 6 from section B be made compulsory and should cover complete syllabus of the respective section and should be set for six marks each. The Question no.1 and 6 should be of objective nature.
4. Two questions of 7 marks each from remaining questions from each section A and B be asked to solve.