

# UNIVERSITY OF CALICUT

(Abstract)

Restructuring UG Curriculum - Introduction of Choice Based Credit Semester System and Grading for UG level from 2009–2010 academic year - Regulation - implemented – Orders issued.

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## GENERAL AND ACADEMIC BRANCH - I

No. GA I/J2/3601/08(Vol.II)

Dated, Calicut University. P.O., 19.06.2009.

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- Read: 1. Lr.No.53/KSHEC/Utys/2008 dated 21.05.2008 from the Vice Chairman, Kerala State Higher Education Council.
2. Item No.2008.476 (emended vide item 2008.570 on 18.09.2008) of the meeting of the Syndicate of 26.08.2008.
  3. U.O.No.GAI/J2/3601/08 dated 18.10.2008.
  4. U.O.No.VC's/9/2009 dated 05.01.2009.
  5. Minutes of the meeting of the Faculties of Fine Arts, Science, Language and Literature, Humanities, Commerce and Management Studies held on 24.04.2009, 05.05.2009, 06.05.2009, 08.05.2009 and 12.05.2009 respectively.
  6. Item No.2009.237 of the minutes of the meeting of the Syndicate held on 07.05.2009.
  7. Minutes of the meeting of the Academic Council held on 14.05.2009 (Item No.1.8).

## ORDER

As per paper read above as 1 above, the Governing Council of the Kerala State Higher Education Council proposed to restructure the Under Graduate education by introducing Semesterisation and Grading from 2009-2010 academic year onwards. The Council proposed a new pattern of courses for the programme.

The Syndicate, vide paper read as 2<sup>nd</sup> above considered the proposal of the Kerala State Higher Education Council to restructure UG curriculum - introduction of Choice Based Credit Semester System and Grading at Under Graduate level, and resolved to conduct a workshop for Chairmen, Boards of Studies, Deans of Faculties and representatives of teachers organisation to formulate the modalities to implement the scheme under this University. It was also resolved to constitute an Implementation Committee. The workshop as directed by the Syndicate was conducted on 24<sup>th</sup> September 2008 and the Implementation Committee was constituted vide paper read as 3 above.

Workshops were conducted by various Boards of Studies under the Faculties of Science, Language and Literature, Humanities, Commerce and Management Studies and Fine Arts for restructuring Syllabi as per directions and financial assistance from the Kerala State Higher Education Council.

As per paper read as 4<sup>th</sup> above, a Steering Committee for framing modalities for restructuring UG programme was constituted by the Vice-Chancellor with 13 members including a Chairman and one Convenor. The Committee after repeated deliberations in various sittings, formulated a draft regulation for Choice Based Credit Semester System (UG) to be effective from 2009-2010 academic year.

The Boards of Studies under Faculty of Science, Faculty of Language and Literature, Faculty of Humanities, Faculty of Commerce and Management Studies, Faculty of Fine Arts in their meetings held subsequent to workshops resolved to approve the draft regulation of Choice Based Credit Semester System (UG) for 2009-2010 academic year onwards and the syllabi of various UG courses prepared accordingly. The Faculties of Fine Arts, Science, Humanities, Language and Literature, Commerce and Management Studies vide paper 5 above approved the draft regulation for Choice Based Credit Semester System (UG) to be effective from 2009-2010 academic year onwards.

Vide paper read as 6 above, the Syndicate resolved to approve the draft regulation for Choice Based Credit Semester System programme for UG curriculum from 2009 admission onwards and to place the same before the Academic Council.

The Academic Council vide paper read as 7 above approved the draft regulations of the Choice Based Credit Semester System programme for UG Curriculum for implementing the same from 2009 admission onwards incorporating the modifications.

Sanction has therefore been accorded for implementing the draft regulation of Choice Based Credit Semester System for UG curriculum from 2009 admission onwards in the affiliated colleges.

Orders are issued accordingly. Regulation for Choice Based Credit Semester System (UG) is appended.

Sd/-  
**DEPUTY REGISTRAR (G&A I)**  
For REGISTRAR.

To

1. The Principals of Affiliated Colleges offering UG courses.
2. The Vice Chairman, Kerala State Higher Education Council.

Copy to: PS to VC/PA to PVC/PA to Registrar/  
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**Forwarded / By Order**

**SECTION OFFICER**

**UNIVERSITY OF CALICUT**  
**Regulations for Choice based Credit Semester System**  
**For Under Graduate Curriculum 2009**

**1. SHORT TITLE**

- 1.1 These regulations shall be called “Calicut University Regulations for Choice based Credit Semester System For Under-Graduate Curriculum 2009” (CUCCSSUG 2009).

**2. SCOPE**

- 2.1 The regulations provided herein shall apply to all regular under-graduate programmes under faculties as specified in section 4.1 conducted by the University of Calicut, for the courses commencing from 2009, with effect from the academic year 2009-2010.
- 2.2 The provisions herein supersede the existing regulations for the regular under-graduate programmes under faculties specified in section 4.1 conducted by the University of Calicut unless otherwise specified. For students admitted in private/ distance mode, the existing regulations shall prevail.

**3. DEFINITIONS**

- 3.1 ‘Programme’ means the entire course of study and examinations (traditionally referred to as course).
- 3.2 ‘Duration of programme’ means the time period required for the conduct of the programme. The duration of an under-graduate degree programme shall be six semesters distributed in a period of 3 years.
- 3.3 'Academic Week' is a unit of five working days in which distribution of work is organized from day one to day five, with five contact hours of one hour duration on each day. A sequence of 18 such academic weeks constitutes a semester.
- 3.4 ‘Semester’ means a term consisting of a minimum of 90 working days including examination days distributed over a minimum of 18 weeks of 5 working days each.
- 3.5 ‘Course’ means a segment of subject matter to be covered in a semester (traditionally referred to as paper).
- 3.6 ‘Common course’ means a course that comes under the category of courses, including compulsory English and additional language courses and a set of general courses, a selection of which is compulsory for all students undergoing undergraduate programmes.
- 3.7 ‘Core course’ means a compulsory course in a subject related to a particular degree programme.
- 3.8 ‘Open course’ means a course which can be opted by a student at his/her choice (A minimum number of Open courses are compulsory for passing the degree).
- 3.9 ‘Complementary Course’ means a course which is generally related to the core course (traditionally referred to as subsidiary paper).
- 3.10 ‘Repeat course’ is a course that is repeated by a student for having failed in that course in an earlier registration.
- 3.11 ‘Improvement course’ is a course registered by a student for improving his performance in that particular course.
- 3.12 ‘Department’ means any Teaching Department offering a course of study approved by the university in a College as per the Statutes and Act of the university.
- 3.13 'Department Co-ordinator' is a teacher nominated by a Department Council to co-ordinate the continuous evaluation undertaken in that department.
- 3.14 'Department Council' means the body of all teachers of a department in a college.
- 3.15 ‘Parent Department’ means the Department which offers a particular degree programme.
- 3.16 ‘Student Advisor’ means a teacher from the college nominated by the College council, who will advise the students in academic matters.
- 3.15 ‘Credit’ (Cr) of a course is a measure of the weekly unit of work assigned for the course.
- 3.16 ‘Extra Credit’ is the additional credits acquired by the student for co-curricular activities.

- 3.17 'Letter Grade' or simply 'Grade' in a course is a letter symbol ( A, B, C, D, E ), which indicates the broad level of performance of a student in a course.
- 3.18 Each letter grade is assigned a 'Grade point' (G) which is an integer indicating the numerical equivalent of the broad level of performance of a student in a course.
- 3.19 'Credit point' (P) of a course is the value obtained by multiplying the grade point (G) by the credit (Cr) of the course:  $P = G \times Cr$ .
- 3.20 'Semester Grade Point Average' (SGPA) is the value obtained by dividing the sum of credit points (P) obtained by a student in the various courses taken in a semester by the total number of credits taken by him/her in that semester. The grade point shall be rounded off to two decimal places. SGPA determines the overall performance of a student at the end of a semester.
- 3.21 'Cumulative Grade Point Average' (CGPA) is the value obtained by dividing the sum of credit points in all the courses taken by the student for the entire programme by the total number of credits and shall be rounded off by two decimal places.
- 3.22 Words and expressions used and not defined in this regulation but defined in the Calicut University Act and Statutes shall have the meaning assigned to them in the Act and Statutes.

#### 4. PROGRAMME STRUCTURE

- 4.1 Students shall be admitted into undergraduate programme under faculties of SCIENCE, HUMANITIES, LANGUAGE&LITERATURE, COMMERCE & MANAGEMENT, FINE ARTS and JOURNALISM.
- 4.2 **Duration:** The duration of an under graduate programme shall be 6 semesters distributed in a period of 3 academic years. The odd semesters shall be from June to October and the even semesters shall be from November to March. Each semester shall have a minimum of 90 working days inclusive of all examinations.
- 4.3 **Courses:** The under graduate programme shall include four types of courses, viz., Common Course (Code A), Core courses (Code B), Complementary courses (Code C) and Open courses (Code D).
- 4.4 **Course code:** Each course shall have an alpha numeric code number, which includes abbreviation of the subject in two letters, the semester number (1 to 6) in which the course is offered, the code of the course (A to D) and the serial number of the course (01, 02.....). For example: EN1B01 means the core course in English for the first semester.
- 4.5 **Common courses:** Every under graduate student shall undergo 10 common courses (Total 38 credits) chosen from a group of 14 common courses listed below, for completing the programme:
1. Communication skills in English.
  2. Critical Reasoning, Writing and Presentation.
  3. Reading literature in English.
  4. Readings on Indian constitution, secularism and sustainable environment
  5. Literature and contemporary issues
  6. History and philosophy of science.
  7. Communication Skill in the languages other than English.
  8. Translation and communication in languages other than English.
  9. Literature in Malayalam/Hindi/Other Indian/World languages other than English
  10. Culture and civilization (with a compulsory component on Kerala Culture)
  11. Basics of Business and management
  12. General Informatics
  13. Basic numerical skills
  14. Entrepreneurship development

These common courses are distributed in the various programmes as detailed below (Table)

**Table. Common Courses in the various programmes**

No.	Programme	Semester I	Semester II	Semester III	Semester IV
1.	B.A & B.Sc	1, 2, 7	3, 4, 8	5, 9	6, 10
2.	B.Com	1, 2, 7	3, 4, 9	11, 12	13, 14
3.	B.B.A	1, 2, 6	4, 5, 10	11, 12	13, 14
4.	B.Sc in alternate pattern	1,2,7	3,4,9	6,12	13,14

Courses 1-6 shall be taught by English teachers and 7-10 by teachers of languages other than English. However, depending on the existing staff pattern, these common courses (1-14) may also be taught by teachers of other faculty.

- 4.6 **Core courses:** Core courses are the courses in the major (Core) subject of the degree programme chosen by the student. Core courses are offered by the parent department. The number of core courses vary from 10 to 18 including a project work.
- 4.7 **Complementary courses:** Complementary courses cover one or two disciplines that are related to the core subject and are distributed in the first four semesters.
- 4.8 **Open Courses:** There shall be one open course in core subjects in the fifth semester. The open course shall be open to all the students in the institution except the students in the parent department. The students can opt that course from any other department in the institution. Each department can decide the open courses from a pool of three courses offered by the university.
- 4.9 **Credits:** Each course shall have certain credits. For passing the degree programme the student shall be required to achieve a minimum of 120 credits of which 38 credit shall be from common courses, 78 credits from core and complementary courses and 4 credits from the open courses.
- 4.10 **Attendance:** The minimum requirement of attendance during a semester shall be 75% for each course. Attendance shall be maintained by the concerned course teacher. Condonation of shortage of attendance to a maximum of 10 days in a semester subject to a maximum of two times during the whole period of a Degree Programme may be granted by the University.
- Benefits of attendance may be granted to students who attend to University Union activities, meetings of University bodies and participation in extra curricular activities by treating as present for the days of their absence for the above purpose on production of participation/attendance certificate in such activities issued by the University Authorities / Principals subject to a maximum of 10 days in a semester).
- 4.11 **Extra credits:** Extra credits may be awarded to a student for achievements in co-curricular activities carried out outside the regular class hours. These credits shall not be counted while considering the minimum credits (120) for passing the programme. The details are given below:

Co-curricular activity	Extra credits
1. NCC weightage certificate	1
2. NSS weightage certificate	1
3. University level participation in sports and games	1
4. Participation in inter zone arts festival	1
5. Participation in inter University meets	1

- 4.12 **Extension activities:** Compulsory social service (CSS) for a period of 30 days is essential for the successful completion of a U.G programme.

## 5. REGISTRATION

- 5.1 A student shall be permitted to register for the programme at the time of admission. If registration for examination is not possible owing to shortage of attendance beyond condonation limit, the student shall be permitted to move to the next semester. Students shall make up the shortage of attendance in that semester ('Repeat Semester') after completion of the programme. The 'Repeat Semester' shall be possible only once in the entire programme.
- 5.2 The condonation of shortage of attendance shall be granted according to the existing prescribed norms.
- 5.3 A student who registered for the course shall complete the course within 6 years from the year of registration.

## 6. BOARD OF STUDIES AND COURSES

- 6.1 The concerned UG Boards of Studies shall design all the courses offered in the under-graduate programmes. The Boards shall design and introduce new courses, modify or re-design existing courses and replace any existing courses with new/modified/re-designed courses to facilitate better exposures and training for the students.
- 6.2 The syllabus of a course shall include the title of the course, the number of credits and reference materials. The student shall complete the prerequisites, if any, for the course before the commencement of classes.
- 6.3 Each course shall have an alpha-numeric code, title and credits. The code gives information on the Subject, the Semester number and the Serial Number of the course.

- 6.4 Every programme conducted under the Credit Semester System in a College shall be monitored by the College Council.

## 7. ADMISSION

- 7.1 The admission to all programmes will be as per the rules and regulations of the University.
- 7.2 The eligibility criteria for admission shall be as announced by the University from time to time.
- 7.3 Separate rank lists shall be drawn up for reserved seats as per the existing rules.
- 7.4 The admitted candidates shall subsequently undergo the prescribed courses of study in a college affiliated to the university for six semesters within a period of not less than three years; clear all the examinations prescribed and fulfill all such conditions as prescribed by the university from time to time.
- 7.5 The College shall make available to all students admitted a Prospectus listing all the courses offered in various Departments during a particular semester. The information so provided shall contain title of the courses and credits for the course.
- 7.6 There shall be a uniform calendar prepared by the University for the conduct of the courses. The University shall ensure that the calendar is strictly followed.
- 7.7 There shall be provision for inter collegiate and inter university transfer in third and fifth semester within a period of two weeks from the date of commencement of the semester.
- 7.8 There shall be provision for credit transfer subject to the conditions specified by the concerned Board of studies.

## 8 EXAMINATION

- 8.1 There shall be University examinations at the end of each semester.
- 8.2 Practical examinations shall be conducted by the University at the end of fourth and sixth semester (except for music).
- 8.3 Both theory and practical University examinations shall be of three hour duration.
- 8.4 Viva-voce, if any, shall be conducted along with the practical examination.
- 8.5 A question paper may contain objective type (includes answer in a word or sentence, multiple choice or fill in the blanks type), short answer type paragraph type and essay type questions.
- 8.6 Different types of questions shall possess different weightage to quantify their range. Weightage can vary from course to course depending on their comparative importance. But a general pattern may be followed by the Board of studies and is given in the appendix (Table 3).
- 8.7 Project evaluation shall be conducted at the end of sixth semester.

## 9 EVALUATION AND GRADING

- 9.1 The evaluation scheme for each course shall contain two parts  
(1) internal evaluation (2) external evaluation  
25% weight shall be given to the internal evaluation. The remaining 75% weight shall be for the external evaluation.

### Weightage of Internal and External valuation

Evaluation	Weightage
Internal	1 (or 25%)
External	3 (or 75%)

Both internal and external evaluation will be carried out using Direct Grading System (sec 10)

- 9.2 Internal Evaluation:

The internal evaluation shall be based on a predetermined transparent system involving periodic written tests, assignments, seminars and attendance in respect of theory courses and based on written tests, lab skill/records/viva and attendance in respect of practical courses:

### Components of Internal Evaluation

Theory Course	Weightage	Theory Course	Weightage
a. Assignment	1	c. Seminar	1
b. Test Paper	2	d. Attendance	1

To ensure transparency of the evaluation process, the internal assessment Grade awarded to the students in each course in a semester shall be notified on the notice board at least one week before the commencement of external examination. There shall not be any chance for improvement for internal grade.

The course teacher (s) shall maintain the academic record of each student registered for the course, which shall be forwarded to the University (with the signature of both course teacher and HOD) through the College Principal.

#### 9.3 External Evaluation:

The external examination in theory courses is to be conducted with question papers set by external experts. The evaluation of the answer scripts shall be done by an examiners based on a well-defined scheme of valuation.

The external examination in practical courses and project evaluation shall be conducted by two examiners - one internal and an external, nominated by the University.

#### 9.4 The external evaluation shall be done immediately after the examination preferably in a Centralized Valuation Camp.

#### 9.5 Photocopies of the answer scripts of the external examination also shall be made available to the students for scrutiny on request and discrepancies if any are to be brought to the notice of the University by submitting an application for recounting/revaluation along with the required fees within 7 days of publishing the results. The fee for scrutiny/revaluation of answer scripts shall be as decided by the University.

### 10. DIRECT GRADING SYSTEM

#### 10.1 DIRECT GRADING SYSTEM based on a 5-point scale is used to evaluate the performance (External and Internal) of students.

#### Direct Grading System

Letter Grade	Performance	Grade Point	Grade Range
A	Excellent	4	3.50 to 4.00
B	Very Good	3	2.50 to 3.49
C	Good	2	1.50 to 2.49
D(Lowest passing grade)	Average	1	0.50 to 1.49
E	Poor	0	0.00 to 0.49

#### 10.2 Each course is evaluated by assigning a letter grade (A, B, C, D or E) to that course by the method of direct grading. The Internal (weight=1) and External (weight=3) components of a course are separately graded and then combined to get the grade of the course after taking into account of their weights (See Appendix for details).

#### 10.3 An aggregate of C grade (when external and internal put together) is required in each course for a pass and also for awarding a degree.

#### 10.4 A student who fails to secure a minimum grade for a pass in a course is permitted to write the examination along with the next batch.

#### 10.5 After the successful completion of a semester, Semester Grade Point Average (SGPA) of a student in that semester is calculated using the formula given below. For the successful completion of a semester, a student should pass all courses and score a minimum SGPA of 2.0. However, a student is permitted to move to the next semester irrespective of her/his SGPA.

For instance, if a student has registered for 'n' courses of credits  $C_1, C_2, \dots, C_n$  in a semester and if she/he has scored credit points  $P_1, P_2, \dots, P_n$  respectively in these courses, then SGPA of the student in that semester is calculated using the formula

$$\text{SGPA} = \frac{P_1 + P_2 + \dots + P_n}{C_1 + C_2 + \dots + C_n}$$

(See Appendix for a model calculation of SGPA)

The Cumulative Grade Point Average (CGPA) of the student is calculated at the end of a programme. For the computation of CGPA, only the best performed courses with maximum credit points (P) alone shall be taken subject to the minimum credits requirements. The CGPA of a student determines the overall academic level of the student in a programme and is the criterion for ranking the students. CGPA can be calculated by the following formula:

$$\text{CGPA} = \frac{(\text{SGPA})_1 S_1 + (\text{SGPA})_2 S_2 + \dots + (\text{SGPA})_6 S_6}{S_1 + S_2 + \dots + S_6}$$

Here, (SGPA)<sub>i</sub> with i = 1, 2, 3, ..., 6, is the SGPA of the i<sup>th</sup> semester and S<sub>i</sub> is the total credits taken in the i<sup>th</sup> semester.

SGPA and CGPA shall be rounded off to two decimal places. CGPA determines the broad academic level of the student in a programme and is the index for ranking students. An overall letter grade (Cumulative Grade) for the entire programme shall be awarded to a student depending on her/his CGPA

An overall letter grade (Cumulative Grade) for the whole programme shall be awarded to the student based on the value of CGPA using a 7-point scale given below. For instance, if CGPA of a student turns out to be 3.42, then her/his Cumulative Grade will be B+.

**Overall Grade in a Programme**

CGPA	Overall Letter Grade
3.80 to 4.00	A+
3.50 to 3.79	A
3.00 to 3.49	B+
2.50 to 2.99	B
2.00 to 2.49	C+
1.50 to 1.99	C
1.00 to 1.49	D

## 11. GRADE CARD

- 11.1 The University under its seal shall issue to the students a grade card on completion of each semester, which shall contain the following information:
- Name of University
  - Name of parent department and college
  - Title of Under-Graduate Programme
  - Name of Semester
  - Name and Register Number of student
  - Code number, Title and Credits of each course opted in the semester
  - Internal, External and Total Grade, Grade point (G), Letter grade and Credit point (P) in each course opted in the semester
  - Institutional average of the Internal Exam and University Average of the External Exam in each course.
  - The total credits, total credit points and SGPA in the semester
- 11.2 The final Grade Card issued at the end of the final semester shall contain the details of all courses taken during the entire programme including those taken over and above the prescribed minimum credits for obtaining the degree. However, as already mentioned, for the computation of CGPA only the best performed courses with maximum grade points alone shall be taken subject to the minimum credits requirements for passing a specific degree. The final grade card shall show the CGPA and the overall letter grade of a student for the entire programme.
- 11.3 The final grade card shall also include the CGPA of common courses, core courses, complementary courses and open courses. This is done in a seven point scale.



## 12. AWARD OF DEGREE

The successful completion of all the courses (common, core, complementary and open courses) prescribed for the degree programme with C grade shall be the minimum requirement for the award of the degree.

## 13. GRIEVANCE REDRESSAL COMMITTEE

13.1 College level: The College shall form a Grievance Redressal Committee in each department comprising of course teacher and one senior teacher as members and the Head of the department as chairman. This committee shall address all grievances relating to the internal assessment grades of the students. There shall be a college level Grievance Redressal Committee comprising of student advisor, two senior teachers and two staff council members (one shall be elected member) as members and principal as chairman.

13.2 University level: The University shall form a Grievance Redressal Committee as per the existing norms.

## 14. TRANSITORY PROVISION

Notwithstanding anything contained in these regulations, the Vice-Chancellor shall, for a period of one year from the date of coming into force of these regulations, have the power to provide by order that these regulations shall be applied to any programme with such modifications as may be necessary.

## 15. REPEAL

The Regulations now in force in so far as they are applicable to programmes offered by the University and to the extent they are inconsistent with these regulations are hereby repealed. In the case of any inconsistency between the existing regulations and these regulations relating to the Choice-based Credit Semester System in their application to any course offered in a College, the latter shall prevail.

□

## APPENDIX

### A. Method of Direct Grading

#### 1. DIRECT GRADING SYSTEM

Evaluation (Internal and External) is carried out using a Direct Grading System based on a 5-point scale given below:

**Table 1. Direct Grading System**

Letter Grade	Performance	Grade Point	Grade Range
A	Excellent	4	3.50 to 4.00
B	Very Good	3	2.50 to 3.49
C	Good	2	1.50 to 2.49
D(Lowest passing grade)	Average	1	0.50 to 1.49
E	Poor	0	0.00 to 0.49

In direct grading, first of all each answer in an answer paper is directly given a letter grade in place of marks. The overall grade of the answer paper is then obtained by adding these grades of the individual answers accounting for the weights defined for the corresponding questions in the question paper (see below). Addition of letter grades is facilitated by the numerical grade point associated with each letter grade (see Table 1). There is no involvement of marks in this system of valuation.

Grades of individual answers are decided with the help of a well defined scheme of valuation. The best answer is given grade A (Excellent) and the worst answer is given grade E (Poor). Answers falling in between these two grades are assigned the grades B (very good), C (Good), D (Average) depending on their quality with reference to the scheme.

#### 2. EXTERNAL EVALUATION

##### 2.1 Theory Courses

Different types of questions are asked to test different abilities of the student. For instance,

1. Multiple Choice/Objective Type questions
2. Short Answer type questions
3. Short Essays/Problems
4. Long Essays

An essay type question can test multiple skills such as information recall, comprehension, analysis, application, synthesis, judgment etc., whereas an objective type question usually can test only fewer skills. Thus 'A grade' awarded for an essay type will have more weight than the 'A Grade' awarded for an objective type. Therefore different types of questions are given different weights.

Weights are similar to marks in the traditional marks system. Imagine a conventional question paper for total marks of 100, consisting of 20 Objective type questions each of 1 mark, 6 Short answer type questions each of 4 marks, 3 Short essay/Problem type questions each of 8 marks and 2 Long Essay type questions each of 16 marks. Then, we say that the relative weights of these 4 types of questions are 1, 4, 8, 16 or  $\frac{1}{4}$ , 1, 2, 4 respectively.

For convenience, let us first consider that there are only one question of each type to be answered and A, C, A and B be respectively the grades scored for them. Then the combined grade for the answer paper consisting of these 4 answers is calculated as follows:

**Table 2: Calculation of combined grade**

Type	Weight	Grade awarded	Grade points	Weighted Grade points
Objective Type	¼	A	4	1
Short answer type	1	C	2	2
Short Essay type	2	A	4	8
Essays type	4	B	3	12
Total	7.25			23
Overall Grade	Sum of weighted grade points / Sum of weights = 23/7.25 = 3.17; Grade B			

Thus, the overall grade is B. Here, we note that the ‘inconvenient’ division by 7.25 occurs because of the fractional weight ( $\frac{1}{4}$ ) of the objective type. This can be easily avoided if we bunch 4 objective type questions together, since such a bunch will have weight equal to 1. Further, if all 4 answers are correct, the bunch can be graded as A; if 3 are correct, the bunch can be graded as B; for 2 correct answers, C grade; for 1 correct answer, D grade; for no correct answer, the bunch gets F grade. Thus, in a 5-point scale, it is advisable to set objective type questions in bunches of four for the convenience of tabulation.

### 2.1.1 Calculation of the Grade of an answer paper (External Grade)

Let us now consider the full question paper consisting of 20 objective type, 6 short answer type, 3 Short Essay type and 2 Essay type questions. The 20 objective type questions are set into 5 bunches of four: 1-4, 5-8; 9-12; 13-16; 17-20. Knowing the grades awarded to the answers of these questions, the overall grade of the answer paper can be calculated as shown in Table 3.

**Table 3. Calculation of the Grade of an Answer Paper**

Question Type	Question No.	Grades awarded/Grade points	Weight	Weighted Grade points
Objective	1-4	C (2)	1	2
	5-8	B (3)	1	3
	9-12	D (1)	1	1
	13-16	F (0)	1	0
	17-20	A (4)	1	1
Short answer	21	A (4)	1	4
	22	D (1)	1	1
	23	C (2)	1	2
	24	B (3)	1	3
	25	A (4)	1	4
	26	A (4)	1	4
Short Essay	27	B (3)	2	6
	28	B (3)	2	6
	29	C (2)	2	4
Long Essay	30	B (3)	4	12
	31	D (1)	4	4
Total			25	57
Grade of Paper	Sum of weighted grade points / Sum of weight = 57/25 = 2.28 = Grade C			

## 2. 2 Practical Courses

The grade of a practical course may be calculated by a similar procedure discussed above by assigning weights for the various components (e.g., Procedure, Calculation, Accuracy of the reported values, Presentation of results, Diagrams, etc). **The Boards of studies shall define the components, their weights and show them in the model question paper included in the scheme and syllabus of each practical course.**

### 3. INTERNAL EVALUATION

Internal Evaluation has different components of different weights as shown below:

**Table 4. Components of Internal Evaluation**

Theory Course	Weightage	Grading
a. Assignment	1	Graded as A, B, C, D, E, depending on quality
b. Test Paper (min. 2)	2	Graded as A, B, C, D, E
c. Attendance	1	Below 75%:E, 75-79:D, 80-84:C, 85-89:B,90above: A
d. Seminar	1	Graded as A, B, C, D, E, depending on presentation

### 4. CALCULATION OF THE GRADE OF A COURSE

The grade of a course is calculated by combining the grades of the External and Internal examinations taking care of their weights. For a particular course, let the grades scored by a student be C and B respectively for the External and Internal evaluations, as shown in the above examples. Then, the grade of the course can be calculated as follows:

**Table 5. Calculation of the Grade of a Course**

Exam	Weight	Grade awarded/Grade points	Weighted grade points
External	3	C (2)	6
Internal	1	B (3)	3
Total	4		9
Grade of course	Sum of weighted grade points/ Sum of weights = $9/4 = 2.25 = \text{Grade C}$		

The grades of the different courses taken by a student may be similarly calculated and Semester Grade Point Average (SGPA) at the end of a semester and Cumulative Grade Point Average (CGPA) at the end of a programme may be calculated.

### 5. CALCULATION OF SGPA

Suppose the student has taken four courses each of credits 4 and two courses each of credits 2 in a semester. After calculating the Grade of each course as demonstrated above, we can calculate SGPA as shown below:

**Table 6. Calculation of SGPA**

Course code	Title of course	Credit	Grade awarded	Grade points	Credit points
01	.....	4	A	4	16
02	.....	4	C	2	8
03	.....	4	A	4	16
04		4	C	2	8
05		2	B	3	6
06		2	B	3	6
Total		20			60
SGPA	Sum of credit points / Sum of credits = $60/20 = 3.0 = \text{Grade B}$				

### 6. CALCULATION OF CGPA

Just like we calculated SGPA, CGPA can be calculated at the end of a programme considering all the courses taken by the student subject to the minimum credits requirements.