1. List of programs in which CBCS/Elective course system implemented in the last completed academic year certified by the Registrar of the affiliating university

36323/Ac B II/2022/UOK

Dated: 12.10.2022

CERTIFICATE

This is to certify that the **S.N. College, Punalur** has been Affiliated to the University of Kerala since the year 1965 and working on Aided basis. The college was offering the following courses with sanctioned strength of students during the academic year 2021-22.

Sl. No.	Programme	Seats
1	B A English and Communicative English	30
2	B A History	40
3	B A Economics	40
4	B.Sc Zoology	24
5	B.Sc Physics	32
6	B.Sc Chemistry	40
7	B.Sc Mathematics	32
8	BCom(Elective –Co-operation)	50
9	MSc Chemistry	10
10	MSc Physics	12
11	MSc Mathematics	10
12	M.A History (World History and Historeography)	20

This certificate is issued on request, to the Principal, S.N. College, Punalur to produce before the NAAC.

Prof.(Dr.) K.S. Anil Kumar
REGISTRAR

2. Minutes of relevant Academic Council/BOS meetings highlighting the relevant documents to this metric of the affiliating university.

UNIVERSITY OF KERALA
(Abstract)

The Regulations for the First Degree Programmes under Choice Based Credit and Semester System (CBCS) in the Affiliated Colleges, 2009 - Approved - Orders issued

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ACADEMIC A II SECTION

No. Ac. A. II/1/UG Sem./2009　　　　　　Dated, Thiruvananthapuram, 06-07-2009.

Read:　Minutes of the Special Meeting of the Academic Council held on 2nd June 2009

ORDER

The Special Meeting of the Academic Council held on 2nd June 2009, considered along with the recommendations of the Standing Committee, approved the draft Regulations prepared by the Sub-Committee to introduce Semester System for Graduate Courses in the Affiliated Colleges.

The Academic Council resolved that the Regulations for the First Degree Programmes under the Choice Based Credit and Semester System in the Affiliated Colleges be approved by effecting the corrections / suggestions / exclusions and inclusions.

A copy of the Regulations is appended.

Orders are issued accordingly.

Sd/-

REGISTRAR

To

1. The Principals of all Colleges Affiliated to the University of Kerala
2. All Members of the Syndicate
3. Deans of the Faculties of -
   a. Science
   b. Arts
   c. Social Sciences
   d. Oriental Studies
   e. Commerce
   f. Fine Arts
   g. Applied Sciences
   h. Management Studies
4. Chairman / Chairpersons of all Pass Boards of Studies of the Faculties concerned
5. PS to VC / PVC
6. PA to Registrar / CE/ DCDC / FO / The Director IDE
7. Ac. B / Ac. B 1 Section / Ac. L. Section for necessary action
8. All Joint Registrars
9. All Deputy Registrars
10. All Assistant Registrars
11. All Tabulation Sections (UG Courses)
12. Ac. A III / Ac. A IV / Ac. C / Ac. D / Ad. Misc. Sections
13. The PRO / RO / Enquiry
14. Stock File / File Copy

Forwarded / By Order

PRINCIPAL-IN-CHARGE
SREE NARAYANA COLLEGE
PUNALUR

Section Officer

UNIVERSITY OF KERALA
(Abstract)

Amendments in the Regulations for the First Degree Programmes under Choice Based Credit and Semester System (CBCS) in the Colleges affiliated to the University of Kerala and Centres of the University - Approved – Orders issued.

ACADEMIC 'A.II.' SECTION

No.Ac.A.II/UG Sem./2010   Dated, Thiruvananthapuram, 30-10-2010.

Read:- 1.   U.O. No.Ac.A.II/1/UG.Sem./2010 dtd.05-04-2010.
        2.   Minutes of the Meeting of the ULMC held on 08- 10-2010.

O R D E R

The Vice-Chancellor has approved subject to ratification by the Academic Council, the amendments to the Regulations for the First Degree Programme under CBCS System, as recommended by the meeting of the University Level Monitoring Committee read as (2) above.

Hence the Regulations for the First Degree Programmes under Choice Based Credit and Semester System issued as per U.O. read as (1) above stands amended.

A copy of the amended Regulations appended.

Orders are issued accordingly.

Sd/-
REGISTRAR

To

1) The Principals of all affiliated Colleges and Centres of the University
2) The Deans of the Faculties of Science/Arts/Social Sciences/Oriental Studies/ Commerce/Fine Arts/Applied Sciences/Management Studies.
3) The Chairmen of all Pass Boards of Studies of the Faculties concerned.
4) The PS to VC/PVC
5) The PA to Registrar/CE/DCDC/FO
6) The Director, Computer Centre/IDE
7) The Ac.B/Ac.BI Sections and Ac.L Section for necessary action.
8) All Joint Registrars/Deputy Registrars/Assistant Registrars
9) All Tabulation Sections (UG Courses)
10) Ac.A.III/Ac.A.IV/Ac.C/Ac.D/Ad.Misc Section.
11) The PRO/RO/Enquiry
12) Members of the ULMC
13) Stock file / File copy.

Forwarded / By Order

Sd/-
Section Officer

UNIVERSITY OF KERALA

Regulations for the First Degree Programmes in
Affiliated Colleges, 2009

1. **Title**

   These Regulations shall be called 'The University of Kerala Regulations for the First Degree Programmes under the Choice Based Credit and Semester System (CBCS) in Affiliated Colleges', 2009.

2. **Scope, Application and Commencement**

   2.1 The Regulations provided herein shall apply to all regular First Degree (Under Graduate) Programmes under the Faculties of Science, Applied Science, Arts, Social Sciences, Fine Arts, Oriental Studies, Management Studies and Commerce except BFA, BPA, BPE conducted in Colleges Affiliated to the University of Kerala *and* Centres of the University. These Regulations shall also apply to the vocational, triple main and restructured Degree Programmes. These Regulations shall not apply to the Courses offered by the Institute of Distance Education and the Private Registration stream.

   2.1.1. Hereinafter, the Vocational and Triple Main and Restructured Courses be renamed as Career Related First Degree Programme.

   2.2 These Regulations shall apply to First Degree Academic Programmes to which admissions are made from the academic year 2010-2011 onwards.

   2.3 These Regulations supersede the provisions of all the existing Regulations for the regular under Graduate Programme conducted in Colleges Affiliated to the University of Kerala *and* Centres of the University w.e.f. 2010-2011 admissions unless otherwise specified.

3. **Definitions**

   3.1 'Academic Programme' means the entire Course of study as per the given Scheme and Examinations.

   3.2 'Semester' means a term consisting of a minimum of 90 working days distributed over a minimum period of 18 weeks.

   3.3 'Course' means a portion of a subject to be taught and evaluated in a Semester (similar to a paper under traditional scheme).

   3.4 'Language Courses' are Courses in English and an Additional Language of student's Choice, for which all the students who join for First Degree Programme have to register.

   3.5 'Foundation Course' means a Course at the foundation level that all students of the First Degree Programme (FDP) have to register.

   3.6 'Core Course' means a compulsory Course in a Major subject related to the First Degree Programme (FDP) in a discipline.

   3.7 'Complementary Course' means a Course in a subject other than the Major subject and is complementary to it.

   3.8 'Open Course' means an optional Course which the student is free to take at his/her will. Open Course can be an Elective Course in the Major subject or can be a non Major Elective Course outside the mainstream of study as well.

   3.8.1 'Vocational Course' is a Compulsory course in a Major subject of Schedule 2 (a).

   3.9 'Audit Course' means a Course which the student can register without earning Credits (zero Credit Courses) and are not compulsory for completing the Degree Programme.

   3.9.1 "Elective Course" means a specialized Course from the frontier area of the core subject, which he/she is free to choose.

   3.10 'Repeat Course' is a Course that a student repeats if he/she has failed in it.

   3.11 'Credit' (C) of a Course is a measure of the weekly unit of work involving lecture or laboratory session or seminar or similar activity assigned to/for the Course.

   3.12 'Grade' indicates the level of performance of a student in a Course.

3.13   'Grade Point' is an integer indicating the numerical equivalent of the broad level of performance of a student in a Course. The product of grade point average and the Credit of a Course is called 'Credit Point'.

3.13.1   Weight is a numerical measure quantifying the comparative range of an answer or the comparative importance assigned to different components like theory and practical, internal and external examinations, core and complementary subjects.

3.13.2   'Weighted Grade Point' is the sum of grade points multiplied by weight.

3.13.3   'Grade Point Average' (GPA) is an index of the performance of a student in a course. It is obtained by dividing the sum of Weighted Grade Point obtained in the course by the sum of weight of course.

3.14   'Semester Grade Point Average' (SGPA) is an index of the overall performance of a student at the end of a Semester. It is obtained by dividing the sum of the Credit points obtained by a student at the end of a Semester by the sum of the Credits of Courses taken by the student in the Semester.

3.15   'Cumulative Grade Point Average' (CGPA) indicates the broad academic level of performance of the student in a Programme. It is obtained by dividing the sum of the Credit points in all the Courses taken by the student for the entire Programme by the total number of Credits.

3.16   'Major Subject' means the subject for which the student has chosen the core Courses in the respective Programme.

3.17   'Faculty Advisor' means a teacher appointed by the Department Council/HoD who will advise the student on all academic matters. The teacher will be from the department for the Major subject.

3.18   'Grace Grade' means upgraded grade awarded to a student in recognition of meritorious achievements in Sports/Arts/ NCC/NSS. Upgrading of grades shall be based on upgrading of Grade Point Average.

4. Admission

4.1   Eligibility for admissions and reservation of seats for various First Degree Programmes shall be according to the rules framed by the University from time to time. No student shall be eligible for admission to a First-Degree Programme (FDP) in any of the discipline unless he/she has successfully completed the examination conducted by a Board/University at the +2 level of schooling or its equivalent.

4.2   Student enrollment shall be in accordance with the academic and physical facilities available in the institution. The College shall make available to all students a brochure listing all the Courses offered by the various departments in the entire Programme and the number of seats sanctioned by the University for each Programme.

4.3   Depending upon the academic and physical facilities available in the Institution, the University may allow the Institution to admit a certain number of students in the 3rd or 5th Semester by transfer if required, from other Institutions subject to conditions prescribed by the University. A student who has already successfully completed a First Degree Programme and is desirous of and academically capable of pursuing another First Degree Programme may also be admitted with the prior approval of the University according to conditions regarding Course requirements specified by the University.

5. Registration

5.1   Each student shall register for the Courses in the prescribed Registration form in consultation with the Faculty Advisor within two weeks from the commencement of each Semester.

5.2   The number of Courses/Credits that a student can take in a Semester is governed by the provisions in these Regulations subject to a minimum of 16 and maximum number of 27 Credits.

5.3 A student can opt out of a Course/Courses registered subject to the minimum Credit/Course requirement if he/she feels he/she has registered for more Courses than he/she can handle, within thirty days from the commencement of the Semester.

5.4 The maximum number of students to be admitted to a Programme shall be limited to the number of seats sanctioned by the University.

5.5 The college shall send a list of the students registered for each Programme in each Semester giving the details of Courses for which each of the students has registered including the repeat/reappearance Courses, to the University in the prescribed form within 45 days from the commencement of the Semester.

6. Duration

6.1 The normal duration of a First-Degree Programme shall be three years consisting of six Semesters. No student shall be allowed to complete the Programme by attending more than 12 continuous Semesters.

6.2 The duration of each Semester shall be five months inclusive of the days of examinations. There shall be at least 90 working days in a Semester and a minimum of 450 hours of instruction in a Semester. Odd Semester (June-Oct) commences in June and Even Semester (Dec-April) commences in December every year. There will be, to an extent possible, one month Semester break in November and May between Semesters.

6.3 There shall be a uniform calendar prepared by the University for the conduct of the Academic Programme.

7. Programme Structure

7.1 Students shall be admitted to First Degree Programmes in the Faculties of Science, Applied Science, Arts, Fine Arts, Social Sciences, Oriental Studies, Management Studies and Commerce conducted in Affiliated Colleges and Centres of the University under the regular stream as indicated under 2.1.

7.2 The First Degree Programme shall include 1) Language Courses 2) Foundation Courses 3) Core Courses in the Major subjects related to Degree Programme 4) Complementary Courses on allied subjects 5) Open/Elective Courses and 6) Project/Dissertation. In the case of subjects included in 2 (a), there shall be a component of Vocational courses. The minimum number of Courses required for completion for a Degree Programme may vary from 30 – 38 depending on the Credit assigned to different Courses.

7.3 The students may choose the Major subject of study at the beginning of the Programme and shall join a Department.

7.4 Language Courses and Foundation Courses shall be offered in the 1st, 2nd, 3rd and 4th Semesters. Core Courses may be offered from the 1st Semester onwards along with the Complementary Courses and shall include a compulsory project / Dissertation to be undertaken during the 5th / 6th Semester.

Open /Elective Courses may be offered in any subject and the student will have the option to do Courses offered by other Departments, subject to availability of teachers and infrastructure in the Institution, and in exceptional situation, specialized, advanced/applied course offered by same Institution. Open course shall be offered in Fifth Semester and Elective course in Sixth Semester.

7.5 No Course shall carry more than 4 Credits. Audit Courses will carry zero Credit.

7.6 The Core Courses prescribed by the University for the First Degree Programme shall be offered by the parent Department. More than one combination of Complementary Courses in allied subjects may be offered depending on the availability of teachers and infrastructure facilities (e.g. Chemistry with Mathematics and Physics or Chemistry with Mathematics and Computer Science or Chemistry with Mathematics and Zoology.)

7.7 The student is free to take any combination of Complementary Courses offered by the Institution and is also free to select any Elective Course offered by the departments. The student shall do Open/Elective Course totaling to a minimum of 4 Credits but not more than

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24 Credits. However, the students may ascertain from the faculty advisor the suitability and usefulness of such Courses to increase the academic potential and opportunity/eligibility for higher studies.

7.8 The student secures the Credits assigned to a Course on successful completion of the Course. The students shall be required to earn a minimum of 120 Credits including Credits for Language Courses, Foundation Courses, Core Courses ,Complementary Courses (as the case may be), Dissertation and Open/Elective Courses as indicated below within a minimum period of 6 Semesters for the award of the Degree excluding Credit acquired for social service/extension activity. The minimum required Credits for different Courses for the award of the Degree are given in the general structure of the First Degree Programme in schedules 1 and 2.

	B.A. B.Sc.	B.Com.
Accumulated minimum Credits required for successful completion of the Programme:	120 Credits	120 Credits
Minimum Credits for Language Courses	33 Credits	22 Credits
Minimum Credits required for Foundation Courses:	5 Credits	5 Credits
Credits required for Core Courses including Dissertation	50-56 Credits	61 Credits
Credits required for complementary Course	22-28 Credits	12 Credits
Minimum Credits required for Open Courses/ Elective	4 Credits	20 Credits
Minimum Credits for Social Service/ Extension activity:	1 Credit	1 Credit

7.9 The student is free to take Audit Courses which may be skill Based/vocational Courses offered in the College sanctioned by the University, in consultation with the faculty advisor to enhance the academic potential of the student for higher studies/employment. Although the Audit Courses do not fetch any Credits, these Courses shall be indicated in the score sheet.

7.10 A student is free to register for as many Courses as he/she can if facilities permit, meeting the minimum Credits requirement. Such Additional Credits acquired will be separately shown in the grade card. No student shall register for more than 27 Credits (excluding repeat Courses) and less than 16 Credits in each Semester.

7.11 **Attendance:** (Weight 1) Students who secure a minimum of 75% attendance in the aggregate for all the courses of a Semester taken together alone will be allowed to register for End Semester Examinations. Others have to repeat the Semester along with next batch, unless they could make up the shortage of attendance through condonation. However the award of grade for attendance in CE shall be made course-wise. 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 on valid grounds. This condonation shall not be considered for awarding grades for CE. Benefits of attendance for a maximum of 10 days in a semester may be granted to students who participate/attend University Union activities, meetings of the University bodies and extra curricular activities, on production of participation/attendance certificate by University Authorities/Principals as the case may be. But in such cases, condonation will be considered for award of grades for CE.

7.12 Credit Transfer: The Credits acquired for Courses in other universities within the country would be accepted on a reciprocal basis according to University norms. Credit transfer and accumulation system can be adopted in a Programme. Transfer of Credit consists of acknowledging, recognizing and accepting Credits by an institution for programmes or courses completed at another institution. The Credit transfer scheme shall allow students pursuing a programme in one University to continue their Education in another University without break.

8. **Board of Studies, Courses and Syllabi**

8.1 The Board of studies (in each subject) shall design all the Courses and syllabi for each Course in that subject offered in the First Degree Programme subject to the Regulations of the University. The Board shall design and introduce new Courses, modify or redesign existing Courses or replace any Course/Courses with new/modified Courses to ensure better exposure to students.

8.2   The syllabus for a Course shall include: Course code, the title of the Course, the statement of the aims and objectives of the Course and the number of Credits; instructional hours in terms of lectures, tutorials, and laboratory sessions with the pre-requisites if any, for taking the Course. The Course content shall be given in a unitized manner along with a list of reading materials.

8.3   The syllabus for each Course shall include the mode of transacting that Course in terms of lectures, tutorials, seminars, laboratory sessions, field work, projects and such other activities.

8.4   The syllabus for each Course shall also indicate the scheme of evaluation/ examination.

8.5   For laboratory sessions, the size of a batch shall depend upon the size of the laboratory, the facilities available for controlling and supervising the group of students, and the availability of the number of instruments for individual use. The optimal number of students in a batch for a normal laboratory session under the supervision of a teacher will be 15. In computer laboratory and Language laboratory, the number can be more, or less, depending upon the availability of infrastructure. There shall be at least one teacher to supervise a batch of not more than 15 students in each laboratory session.

8.6   For tutorials, a group shall not generally be more than 15 students.

8.7   For supervision of Dissertation/Project, each student shall be assigned to a Teacher. Not more than 15 students shall be assigned to a particular teacher in a Semester for such supervisory work.

8.8   There shall be a minimum of 15 students but not more than 75 students for Open Courses.

8.9   Maximum number of students for Language course shall not be more than 50.

9. Evaluation and Grading

9.1   Evaluation of each Course shall be done in percentage score and shall involve Continuous evaluation (CE) with a weight of 25 % and End Semester Evaluation (ESE) with a weight of 75 %.

9.2   Continuous Evaluation

9.2.1   All records of Continuous Evaluation shall be kept in the Department and shall be made available for verification by the University, if and when necessary.

9.2.2   *Attendance:*
The allotment of grade for attendance shall be as follows:

Attendance less than 75 %	-	E grade
75 % & less than 80%	-	D grade
80% & less than 85%	-	C grade
85% & less than 90%	-	B grade
90% & above	-	A grade

9.2.3   *Assignments or Seminars: (WEIGHT 1)*
Each student shall be required to do one assignment or one seminar for each Course. Valued assignments shall be returned to the students. The seminars shall be organized by the teacher/teachers in charge of CE and the same shall be assessed by a group of teachers including the teacher/teachers in charge of that Course. Assignments Seminar shall be graded on the basis of their quality. The teacher shall define the expected quality of an assignment in terms of structure, content, presentation etc. and inform the same to the students. Due weight may be given for punctuality in submission. Seminar shall be similarly graded in terms of structure, content, presentation, interaction etc. (Clause 12.6 of regulations dated 28-08-2010 added to clause 9.2.3).

9.2.4   *Tests: (WEIGHT 2)*
For each Course there shall be at least two class tests during a Semester. Grades for the test component in CE shall be awarded on the basis of calculating average of the grades secured for the two class tests. Valued answer scripts shall be made available to the students for perusal within 10 working days from the date of the test. Test papers shall be graded by the same procedure adopted for End-Semester-Evaluation (ESE) of theory course. (Clause 12.7 of regulations dated 28.8.2010 added to clause 9.2.4).

9.2.5   *Announcement of results of CE.*
The results of the CE shall be displayed within 5 working days from the last day of a Semester. Complaints regarding the award of grades for CE if any, have to be submitted to

the Head of the Department within 3 working days from the display of results of CE. These complaints shall be examined by the Department committee and shall arrive at a decision, which shall be communicated to the student.

9.2.6   The statement of grades of the CE of all the students shall be approved by the Department committee, countersigned by the Principal and forwarded to the Controller of Examinations within 15 working days from the last day of the Semester. The University has the right to normalize the CE, if required, for which separate rules shall be framed.

9.3   **End Semester Evaluation (ESE):**
End Semester Examination of all the Courses in all Semesters shall be conducted by the University. The results of the ESE shall be arranged to be published according to the examination calendar prescribed by the University level monitoring committee, which shall not exceed 45 days from the last day of the examination.

10. Project/Dissertation Work:

10.1   For each First Degree Programme there shall be a Project/ Dissertation Work.

10.2   The Project/Dissertation work can be done either individually or by a group not exceeding five students. However, Viva-Voce Based on the Project/Dissertation work shall be conducted individually.

10.3   The topics shall either be allotted by the supervising teacher or be selected by the students in consultation with the supervising teacher.

10.4   The report of the Project/ Dissertation shall be submitted to the Department in duplicate before the completion of the sixth Semester. There shall be no continuous assessment for Dissertation / project work.

10.5   A Board of two Examiners appointed by the University shall evaluate the report of the Project/Dissertation Work.

10.6   The detailed guidelines regarding the conduct and evaluation of the Project/ Dissertation will be framed by the Board of Studies concerned.

11. Social Service/Extension Activity:

11.1   It is mandatory for a student to participate in any one of the following Social Service/Extension Activities for not less than forty hours, during the 3rd and 4th Semester, for successful completion of the Programme

1) Health Education
2) Peoples Planning Programme
3) Debate Club
4) Environmental Activities
5) Human Rights Forum
6) Community Health Activity
7) Kerala State Literacy Mission
8) Performing Arts Club-Folklore
9) Media Club
10) Community Based activities of CACEE
11) NSS
12) NCC
13) Sports Club
14) Science Club
15) Nature Club/Eco Club
16) Theatre Club
17) Planning Forum
18) Literary Club
19) Women's study Unit
20) Anti-Ragging Cell
21) State Library Council Affiliated Rural Public Libraries

11.2   There shall be a General Coordinator to be nominated by the College Council, for the conduct of all these activities.

11.3   A statement testifying the participation of the students shall be forwarded to the Controller of Examinations along with the statement of CE results for the 4th Semester.

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11.4 Those who have not secured the minimum number of hours of Social Service/Extension Activity during the 3rd and 4th Semester shall secure the minimum required attendance by attending such Programmes during the subsequent 5th and 6th Semesters. In such cases, the details about participation shall be forwarded to the Controller of Examinations, by the College authorities along with the CE results of the 6th Semester.

11.5 Separate rules will be framed by the University for awarding Credit for participation in social service/Extension activities.

12 GRADING SYSTEM

12.1 Both CE and ESE will be carried out using Direct Grading System on a 5-point scale as given below:

Direct Grading

Letter Grade	Performance	Grade Points (G)	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	Average	1	0.50 to 1.49
E	Below Average	0	0.00 to 0.49

In direct grading, each descriptive answer is directly given a letter grade in place of marks, on the basis of an assessment of the quality of the answer. In case of objective type questions, grading is undertaken by bunching them into 4. Thus, if all the 4 answers in the bunch are correct, the bunch can be graded as A; if 3 are correct the grade is B; if 2 are correct the grade is C; if 1 is correct the grade is D; if no answer is correct, the grade is E.

12.2 Consolidation of Grades

The overall grade for an answer paper (ESE theory) is consolidated by dividing the sum of weighted grade points by the sum of weights, as shown in the example given below:

Consolidation of Grades for an Answer Paper (Theory)
Consolidation of Grades for an Answer Paper (Theory)

Question Type	Question No.	Grades awarded	Grade points (P)	Weight (W)	Weighted Grade points
Objective 4 bunches – No Choice 4x1= 4 Weightage	1-4	C	2	1	2
	5-8	B	3	1	3
	9-12	D	1	1	1
	13-16	A	4	1	4
	17	A	4	1	4
	18	----------------	----------------	----------------	----------------
	19	C	2	1	2
	20	B	3	1	3
Short answer	21	A	4	1	4
	22	A	4	1	4
(8 out of 12)	23	A	4	1	4
8x1=8 weightage	24	----------------	----------------	----------------	----------------
	25	C	2	1	2
	26	----------------	----------------	----------------	----------------
	27	A	4	1	4
	28	----------------	----------------	----------------	----------------
Short Essay / Paragraph	29	B	3	2	6
	30	B	3	2	6
(5 out of 8)	31	----------------	----------------	----------------	----------------
5 x2=10	32	B	3	2	6
Weightage	33	----------------	----------------	----------------	----------------
	34	B	3	2	6
	35	A	4	2	6
	36	----------------	----------------	2	8

Long Essay	37	B	3	4	12
(2 out of 3)	38	----------------	---------------	-----------	--------------
2x4 = 8 Weightage	39	C	2	4	8
Total 30				30	89
Grade of Answer Paper	Total weighted grade points / Total weights = 89/30 = 2.97 = Grade B				

The hatched rows are excess answers and hence ignored

12.3   The grade of a answer paper (ESE Practical) shall be consolidated by similar procedure discussed above by assigning weights for the various components (e.g., Procedure, Experiment, Calculation, Accuracy of the reported values, Presentation of results, Diagrams, etc.). The Boards of studies shall define the components and their weights and include them in the scheme and syllabus of each practical Course.

12.4   The grades for Continuous Evaluation (CE) shall be consolidated using the same procedure adopted for the ESE grade by combining the grades of the internal components, taking into account their weights.

Clause 12.5 of regulations dated 28-08-2010 deleted.

12.5.   If B, C and A grades are scored by a student for attendance, assignment, seminar and test paper respectively for a particular Course, then her/his CE grade for that Course shall be consolidated as shown in the example given below:

Consolidation of Grades for CE

Component	Weight (W)	Grade	Grade points (G)	Weighted Grade (W x G)
Attendance	1	B	3	3
Assignment/Seminar	1	C	2	2
Test paper	2	A	4	8
Total	4			13
CE Grade	Total Weighted Grade points/ Total weights = 13/4 = 3.25 = Grade B			

12.6   Consolidation of the grade of CE & ESE of the Course: The grade for a Course is consolidated by combining the ESE and CE grades taking care of their weights. For a particular Course, if the grades scored by a student are C and B respectively for the End Semester and Continuous Evaluation, as shown in the above examples, then, the grade for the Course shall be consolidated as shown in the example given below:

Consolidation of the Grade of a Course

Exam	Weight	Grade	Grade points (G)	Weighted grade points (W x G)
ESE	3	C	2.47	7.41
CE	1	B	3.20	3.20
Total	4			10.61
Grade of Course	Total weighted grade points/ Total weights = 10.61/4 = 2.65 = Grade B			

12.7   A minimum of D grade is required for passing a Course with a separate minimum (D grade) for Continuous Evaluation and ESE.

12.8   Consolidation of SGPA: SGPA is obtained by dividing the sum of Credit points (P) obtained in a Semester by the sum of Credits (C) taken in that Semester. After the successful completion of a Semester, Semester Grade point Average (SGPA) of a student in that Semester shall be calculated. Suppose the student has taken four Courses each of 4 Credits

and two Courses each of 2 Credits in a particular Semester. After consolidating the Grade for each Course as demonstrated above, SGPA has to be consolidated as shown in the example given below:

Consolidation of SGPA

Course code	Title of Course	Credits (C)	Grade awarded	Grade points (G)	Credit points (P = C x G)
01	....	4	A	4	16
02	....	4	B	2.65	10.60
03	....	4	A	3.8	15.2
04		4	C	2.2	8.8
05		2	B	3.2	6.4
06		2	B	3.4	6.8
Total		20			63.80
SGPA	Total Credit points /Total Credits = 63.80/20 = 3.19				

12.9 For the successful completion of a Semester, a student has to acquire minimum Credits as given in 7.8 and score a minimum SGPA of 2.00. However, a student is permitted to move to the next Semester irrespective of his/her SGPA.

12.10 Consolidation of 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, as given below. It is obtained by dividing the sum of the credit points in all the courses taken by the student, for the entire program by the total number of credits.

Consolidation of CGPA

Semester	SGPA Credit Point(CP)	SGPA Credit (C)	CGPACP/C
1	63.80	20	
2	65.00	20	
3	70.00	20	
4	69.45	20	396.6/120=3.30
5	64.25	20	
6	64.10	20	
Total	396.60	120	

CGPA= Total Credit points of all Semesters divided by Total Credits of all Semesters=396.6/ 120 = 3.30 = Grade B+

Please see the table below.

Overall Grade in a Programme

CGPA	Overall Letter Grade
3.80 to 4.00	A+
3.50 to<3.80	A
3.00 to<3.50	B+
2.50 to<3.00	B
2.00 to<2.50	C+
1.50 to<2.00	C
Less than 1.5	D

12.11 The grades of the Courses taken over and above the minimum prescribed Credits, shall not be counted for computing CGPA

12.12 For the successful completion of a Programme and award of the Degree, a student must pass all Courses satisfying the minimum Credit requirement and must score a minimum CGPA of 2.00 or an overall grade of C+.

12.13 Promotion to Higher Semesters

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Students who complete the Semester by securing the minimum required attendance as specified in section 7.11 and who register for the End Semester Examination conducted by the University of each Semester alone shall be promoted to the next higher Semester.

12.14 **Repetition of the Semester Courses**

Students who fail to secure the minimum required aggregate attendance during a Semester shall be given one or more chances to repeat the Semester along with the subsequent batch of students after obtaining re-admission, subject to provision contained in clause 6.1 they will have to repeat the CE for all Courses.

12.15 **Re-appearance of Failed Students**

Students who fail shall have to reappear for the ESE of the same along with the next regular batch of students. Failed candidates will have to appear for the examination in the Course concerned. They shall not be allowed to repeat the Semester but the grades secured by them for the CE part shall be carried over and added to the grades obtained in the ESE they reappear. However, those who fail in the CE (i.e. those who fail to secure a minimum of D Grade), will have one more chance to improve the same (except the grade for attendance) along with the next regular batch of students.

12.16 **Grace Grades**

Grace grades shall be awarded for Sports/Arts/NCC/NSS in recognition of meritorious achievements by upgrading grades awarded to Courses to the next higher grade in the form of Grade Point Average. Separate rules will be framed by the University in this respect.

13 Grade Card and Award of Degree

13.1 The University under its seal shall issue to the students a Grade Card on completion of each Semester indicating the details of Courses, Credits and grade point, average for each Course and SGPA.

13.2 The final grade card issued at the end of the final Semester on completion of the Programme shall contain the details of all Courses taken during the entire Programme including Additional Courses taken over and above the prescribed minimum Credits for obtaining the Degree. However, for the calculation of CGPA, only those Courses in which the student has performed the best with maximum Credit points alone shall be taken subject to the minimum requirements of Credits for successful completion of a Programme. The final grade card shall indicate the CGPA and CGPA(S)* and the overall letter grade for the whole Programme. The final grade card shall also indicate all the audited Courses (zero Credit) successfully completed by the student during the whole Programme.

13.3. No student shall be eligible for the award of the Degree unless s/he has successfully completed a Programme of not less than 6 Semesters duration and secured at least 120 Credits(excluding Credits for social service/extension) as prescribed by these Regulations.

13.4 The Degree to be awarded shall be called Bachelors Degree in the respective discipline (e.g. B Sc in Chemistry, B A in English, B Com etc) as specified by the Board of Studies and in accordance with the nomenclature specified by the Act and Statutes of the University.

* CGPA(S) is CGPA for specialized subjects. (It is computed in a similar manner but without considering the Language Courses, Foundation Course for Language and Open Course).

14 Monitoring of the Programme

Monitoring of the First Degree Programme shall be done by Committee at three levels viz., Department Level Monitoring Committee (DLMC), College Level Monitoring Committee (CLMC), and University Level Monitoring Committee (ULMC).

14.1 **Department Level Monitoring Committee (DLMC)**

A committee consisting of the Head of the Department and all teachers of the Department shall monitor the conduct of Courses and evaluation under CE. This committee shall examine the complaints, if any, from aggrieved students regarding the evaluation. The Head of the Department shall be the Chairperson and a teacher selected by DLMC from among the members shall be the Convener.

14.2 **College Level Monitoring Committee (CLMC)**

The College Level Monitoring Committee shall consist of the Principal, the Heads of departments and the elected representatives of teachers in College Council. The Principal shall be the Chairperson and a member selected by the CLMC from among the Heads of the Departments shall be the Convener. This committee shall be responsible for the conduct of the

Programme, ensuring minimum instructional days, making arrangements for ESE (University Examinations) of various Semesters etc. This committee shall consider all the complaints not redressed by the DLMCs. While considering the complaints, by the CLMC, the College Union Chairperson shall be included as an invitee. The College Level Monitoring Committee shall be reconstituted by the Principal immediately on commencement of each academic year.

14.3 University Level Monitoring Committee (ULMC) shall be reconstituted by the VC immediately on the commencement of each academic year.

The ULMC shall consist of the following members:

1) The Pro-Vice-Chancellor
2) A Member of the Syndicate representing Teachers of the Affiliated Colleges nominated by the Vice-Chancellor.
3) A Dean nominated by the Vice-Chancellor
4) Controller of Examinations
5) Director, College Development Council (DCDC)
6) Student Representative of the Syndicate
7) A member of the Academic council nominated by the VC.

The Pro Vice-Chancellor shall be the chairperson and DCDC shall be the convener of the committee. This committee shall be responsible for monitoring and conduct of First Degree Programme envisaged in this regulation. This committee shall finalize the academic calendar and the conduct of the ESE in the college. This committee shall also serve as an appellate committee to examine and settle the complaints not redressed by the CLMC. The committee shall suggest amendments if any to the Regulations of the First Degree Programme.

14.4 All committees mentioned under clause 14.1, 14.2 and 14.3 shall meet three times in a Semester, at the beginning, middle and at the end of the Semester.

14.4.1 All Committees shall be constituted at the beginning of each Academic Year

14.5 Quorum of the Committees

14.5.1 **DLMC**

50% of the total number of the members in the Department shall form the quorum of this committee. It is obligatory for the Teacher/teacher-in-charge of the CE for the particular Course/s to attend the meeting.

14.5.2 **CLMC**

50% of the total number of members shall form the quorum of the committee. It is obligatory for the Head of the Departments concerned, to be present in the meeting while a complaint pertaining to that Department is discussed in the Committee.

14.5.3 **ULMC**

Four members shall constitute the quorum for the meeting of this committee.

15 **Transitory Provision**

Notwithstanding anything contained in these Regulations, the Vice-Chancellor shall for a period of three years 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.

16 **Repeal**

Regulations now in force in so far as they are applicable to Programmes offered in the Affiliated Colleges as mentioned in 2.1 and 2.2 and to the extent they are inconsistent with these Regulations are hereby repealed. In the case of any inconsistency between the existing Regulations and the Regulations relating to First Degree Programme under the Semester Pattern in the Affiliated Colleges and Centres of the University in their application to Courses offered in the Affiliated Colleges and Centres of the University as mentioned in 2.1, the latter shall prevail.

Schedule 1

1. Course Structure for B.A/B.Sc. Degree Programmes

Study components	Number of Courses	Credits/Course	Total Credits
Language Courses			
a) English	5	3 - 4	19
b) Additional Language	4	3 - 4	14
Foundation Course	2	2 - 3	5
Core Course	12 - 15	2 - 4	46 - 52
Complementary Course	8 - 10	2 - 3	22 - 28
Project/Dissertation	1	4	4
Open/Elective Course	1+1	2	4

2. Course Structure for B.Com. Degree Programme

Study components	Number of Courses	Credits/Course	Total Credits
Language Courses			
a) English	4	3 - 4	14
b) Additional Language	2	4	8
Foundation Course	2	2 - 3	5
Core Course	16	2 - 4	57
Complementary Course	4	3	12
Project/Dissertation	1	4	4
Open/Elective Course	1+1+4	2 - 4	20

Total number of Courses	:	32 - 38
Minimum Duration	:	6 Semesters
Total credits required for the Courses of Study	:	120 Credits
Minimum credit for Social Service/extension activity	:	1 Credit.

Schedule 2

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General Course Structure of the Career-related First Degree Programme under CBCS System

All Programmes under schedule 2 are henceforth known as Career Related First Degree Programme. These Programmes are categorized into 2 groups viz. 2(a) & 2 (b).

2(a)

Study Components	Number of Courses	Credits/Course	Total Credits
Language Courses			
1. English	4	3	12
2. Additional Language	2	3	6
Foundation Courses	2	2-3	5
Core Courses	12-14	2-4	38
Vocational Courses	10-12	2-4	35
Complementary Courses	4-6	2-4	16
Open/Elective Courses	2	2	4
Dissertation/project	1	4	4

Accumulated Total Minimum Credits required for Programmes of study = 120 Credits.
Minimum Credits for Social Services/Extension Activity = 1 Credit
Minimum Duration = 6 Semesters

Programmes offered under 2 (a)

1) Botany and Biotechnology
2) Environmental Science & Environment and Water Management
3) Biochemistry & Industrial Micro Biology
4) Physics & Computer Application
5) Chemistry & Industrial Chemistry
6) Journalism & Mass Communication and Video production
7) Malayalam and Mass Communication
8) English & Communicative English
9) Commerce & Hotel Management and Catering
10) Commerce & Tax procedure and practice
11) Commerce and Tourism and Travel Management.

2 (b)

Study Components	Number of Courses	Credits/Course	Total Credits
Language Courses			
1. English	2	2	4
2. Additional Language			
Foundation Courses	2	2-3	5
Core Courses	20-32	2-4	74-98
Complementary Courses	0-4	2-3	0-12
Open/Elective Courses	2-6	2-4	4-24
Dissertation/project	1	4	4

Accumulated Total Minimum Credits required for Programmes of study = 120 Credits.
Minimum Credits for Social Services/Extension Activity = 1 Credit
Minimum Duration = 6 Semesters

Programmes offered under 2 (b)

1) Biotechnology (Multimajor)
2) Commerce with Computer Application
3) Computer Science
4) Electronics
5) Computer Application
6) Business Administration
7) Hotel Management

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UNIVERSITY OF KERALA

REGULATIONS RELATING TO THE FIRST DEGREE PROGRAMMES IN

AFFILIATED COLLEGES, 2013

1. Title

These Regulations shall be called 'The University of Kerala Regulations relating to the First Degree Programmes under the Choice Based Credit and Semester (CBCS) system in Affiliated Colleges', 2013

2. Scope, Application and Commencement

2.1

The Regulations provided herein shall apply to all regular First Degree (Under Graduate) Programmes under the Faculties of Science, Applied Sciences and Technology, Arts, Social Sciences, Fine Arts, Oriental Studies, Management Studies and Commerce except BFA and BPE conducted in Colleges Affiliated to the University of Kerala and Centres of the University. These Regulations shall also apply to the Vocational, Triple Main and Restructured Degree Programmes. These Regulations shall not apply to the Courses offered by the Institute of Distance Education and the Private Registration stream.

2.2

Hereinafter, the Vocational, Triple Main and Restructured Courses are renamed as Career related First Degree Programmes.

2.3

Medium of instruction is English except in the case of Language Courses other than English unless otherwise stated therein.

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2.4

These Regulations shall apply to First Degree Academic Programmes to which admissions are made from the academic year 2013-2014 onwards.

2.5

These Regulations supersede the provisions of all the existing Regulations for the regular Under Graduate Programmes conducted in the Colleges Affiliated to the University of Kerala and Centres of the University with effect from 2013-2014 admissions unless otherwise specified.

3. Definitions

3.1

'Academic Programme' means the entire Course of study as per the given Scheme and Examinations.

3.2

'Semester' means a term consisting of a minimum of 90 working days distributed over a minimum period of 18 weeks.

3.3

'Course' means a portion of a subject to be taught and evaluated in a semester (similar to a paper under annual scheme).

3.4

'Language Courses' are Courses in English and an Additional Language of student's choice, for which all the students who join for First Degree Programmes have to register.

3.5

'Foundation Course' means a Course at the foundation level that all students of the First Degree Programme have to register.

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3.6

'Core Course' means a compulsory Course in a Major Subject related to the First Degree Programme in a discipline.

3.7

'Complementary Course' means a Course in a subject other than the Major Subject and is complementary to it.

3.8

'Open Course' means an Optional Course which the student is free to take at his/her will. Open Course shall be a Non-Major Elective Course offered by the Departments other than the Parent Department.

3.9

'Vocational Course' is a Compulsory course in a Major Subject of schedule 2 (a).

3.10

'Audit Course' means a Course which the student can register without earning Credits (Zero Credit Courses) and are not compulsory for completing the Degree Programme.

3.11

"Elective Course" means a Specialized Course from the frontier area of the Core Subject, offered by the Parent Department which he/she is free to choose.

3.12

'Repeat Course' is a Course that a student repeats if he/she has failed in it.

3.13

'Credit' (C) of a Course is a measure of the weekly unit of work involving lecture or laboratory session or seminar or similar activity assigned to for the Course.

3.14

'Grade' indicates the level of performance of a student in a Course.

3.15

'Grade Point' is an integer indicating the numerical equivalent of the broad level of performance of a student in a Course. The product of Grade Point and the Credit of a Course is called 'Credit Point'.

3.16

'Semester Credit Point Average' (SCPA) is an index of the overall performance of a student at the end of a semester. It is obtained by dividing the sum of the Credit Points obtained by a student at the end of a semester by the sum of the Credits of Courses taken by the student in the semester.

3.17

'Cumulative Credit Point Average' (CCPA) indicates the broad academic level of performance of the student in a Programme. It is obtained by dividing the sum of the Credit Points in all the Courses taken by the student for the entire Programme by the total number of Credits.

3.18

'Major Subject' means the subject for which the student has chosen the Core Courses in the respective Programme.

3.19

'Faculty Advisor' means a teacher appointed by the Department Council/ HoD who will advise the student on all academic matters. The teacher will be from the Department of the Major Subject.

3.20

'Grace Marks' means marks awarded to a student in recognition of meritorious achievements in Sports/Arts/ NCC/NSS.

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4. Admission

4.1

Eligibility for admissions and reservation of seats for various First Degree Programmes shall be according to the rules framed by the University from time to time. No student shall be eligible for admission to a First-Degree Programme in any of the discipline unless he/she has successfully completed the examination conducted by a Board/University at the +2 level of schooling or its equivalent.

4.2

Student enrollment shall be in accordance with the academic and physical facilities available in the Institution. The College shall make available to all students a brochure listing all the Courses offered by the various departments in the entire Programme and the number of seats sanctioned by the University for each Programme.

4.3

Depending upon the academic and physical facilities available in the Institution, the University shall allow the Institution to admit a certain number of students in the 3rd or 5th semester by transfer if required, from other Institutions subject to conditions prescribed by the University. A student who has already successfully completed a First Degree Programme and is desirous of and academically capable of pursuing another First Degree Programme may also be admitted with the prior approval of the University according to conditions regarding course requirements specified by the University.

5. Registration

5.1

Each student shall register for the Courses in the prescribed registration form in consultation with the Faculty Advisor within two weeks from the commencement of each semester.

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5.2

The number of Courses/Credits that a student can take in a semester is governed by the provisions in these Regulations subject to a minimum of 16 and a maximum of 27 Credits.

5.3

A student can opt out of a Course/Courses registered subject to the minimum Credit/Course requirement if he/she feels he/she has registered for more Courses than he/she can handle, within thirty days from the commencement of the semester.

5.4

The maximum number of students to be admitted to a Programme shall be limited to the number of seats sanctioned by the University.

5.5

The college shall send a list of the students registered for each Programme in each semester giving the details of Courses for which each of the students has registered including the repeat/reappearance Courses, to the University in the prescribed form within 45 days from the commencement of the semester.

6. Duration

6.1

The normal duration of the First Degree Programme shall be three years consisting of six semesters. No student shall be allowed to complete the Programme by attending more than 12 continuous semesters.

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6.2

The duration of each semester shall be five months inclusive of the days of the examinations. There shall be atleast 90 working days in a semester and a minimum of 450 hours of instruction in a semester. Odd semester (June-Oct)commences in June and Even semester (Nov-March) commences in November every year. There will be, to an extent possible, five days semester break in between odd and even semesters.

6.3

There shall be a uniform calendar prepared by the University for the conduct of the Academic Programme.

7. Programme Structure

7.1

Students shall be admitted to the First Degree Programmes in the Faculties of Science, Applied Sciences and Technology, Arts, Fine Arts, Social Sciences, Oriental Studies, Management Studies and Commerce conducted in the Affiliated Colleges and the Centres of the University under the regular stream as indicated under 2.1.

7.2

The First Degree Programmes shall include 1) Language Courses 2) Foundation Courses 3) Core Courses in the Major Subjects related to Degree Programmes 4) Complementary Courses on allied subjects 5) Open Course 6) Elective Courses and 7) Project/Dissertation. In the case of subjects included in 2 (a), there shall be a component of Vocational Course. The minimum number of Courses required for the completion of a Degree Programme may vary from 30 – 38 depending on the Credits assigned to different Courses.

7.3

The students shall choose the Major Subject of study at the beginning of the Programme and shall join a Department.

7.4

Language Courses and Foundation Courses shall be offered in the 1st, 2nd, 3rd and 4th semesters. Core Courses shall be offered from the 1st semester onwards along with the Complementary Courses and shall include a compulsory Project / Dissertation to be undertaken during the 5th / 6th semester. Elective courses are courses offered by Parent Department during 6th Semester in the frontier areas/related areas of the Major subject. Open courses are courses which fall outside the area of the Major Subject of studies and are offered by the Departments other than the Parent Department during 5th Semester.

Open Course:- Examination for Open Courses must be scheduled by the University and are to be conducted by Colleges strictly adhering to the Schedule. The Question Papers are to be prepared by the Colleges and after the conduct of the examination, attendance statement along with 2 copies of Question Papers should be forwarded to the University. Evaluation is to be done by the respective Colleges. The students should write the examination in University answer book supplied by the University and the same will be distributed for evaluation among the teachers of respective Colleges. The valued answer scripts are to be kept in the respective Departments for 2 years. After valuation, the marklist must be send to the University within 20 days from the date of conduct of examination. Online submission must also be done at the appropriate time.

7.5

No Course shall carry more than 4 Credits. Audit Courses will carry Zero Credit.

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7.6

The Core Courses prescribed by the University for the First Degree Programmes shall be offered by the parent Department. More than one combination of Complementary Courses in allied subjects may be offered depending on the availability of teachers and infrastructure facilities (e.g. Chemistry with Mathematics and Physics or Chemistry with Mathematics and Computer Science or Chemistry with Mathematics and Zoology.)

7.7

The student is free to take any combination of Complementary Courses offered by the Institution and is also free to select any Elective Course offered by the Departments. The student shall do Open/Elective Course totaling to a minimum of 4 Credits but not more than 24 Credits. However, the students may ascertain from the Faculty Advisor the suitability and usefulness of such Courses to increase the academic potential and opportunity/eligibility for higher studies.

7.8

The student secures the Credits assigned to a Course on successful completion of the Course. The students shall be required to earn a minimum of 120 Credits including Credits for Language Courses, Foundation Courses, Core Courses ,Complementary Courses (as the case may be), Dissertation, Open and Elective Courses as indicated below within a minimum period of 6 Semesters for the award of the Degree excluding Credit acquired for Social Service/Extension Activity. The minimum required Credits for different Courses for the award of the Degree are given in the general structure of the First Degree Programmes in schedules 1 and 2.

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	B.A. / B.Sc.	B. Com	Career related	
			2(a)	2 (b)
Accumulated minimum Credits required for successful completion of the Programme	120Credits	120Credits	120Credits	120Credits
Minimum Credits for Language Courses	33 Credits	22 Credits	18Credits	4Credits
Minimum Credits required for Foundation Courses	5 Credits	5 Credits	5 Credits	5 Credits
Credits required for Core Courses including Dissertation	50-56 Credits	61 Credits	42 Credits	78-102 Credits
Credits required for Complementary Courses	22-28 Credits	12 Credits	16 Credits	0-12 Credits
Minimum Credits required for Vocational Courses	....	....	35 Credits	....
Minimum Credits required for Open Courses	2 Credits	2 Credits	2 Credits	2 Credits
Minimum Credits required for Elective Courses	2 Credits	18 Credits	2 Credits	2-22 Credits
Minimum Credits for Social Service/ Extension Activities	1 Credit	1 Credit	1 Credit	1 Credit

7.9

The student is free to take Audit Courses which may be skill based/ Vocational Courses offered in the College sanctioned by the University, in consultation with the Faculty Advisor to enhance the academic potential of the student for higher studies/employment. Although the Audit Courses do not fetch any Credits, these Courses shall be indicated in the score sheet.

7.10

A student is free to register for as many Courses as he/she can if facilities permit, meeting the minimum Credits requirement. Such additional Credits acquired will be separately shown in the Mark cum Grade sheet. No student shall register for more than 27 Credits (excluding repeat Courses) and less than 16 Credits in each semester.

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7.11

Attendance: Students who secure a minimum of 75% attendance in the aggregate for all the Courses of a semester taken together alone will be allowed to register for End Semester Evaluation. Others have to repeat the semester along with the next batch, unless they could make up the shortage of attendance through condonation.However the award of Grade for attendance in CE shall be made course-wise. 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 shall be granted by the University on valid grounds. This condonation shall not be considered for awarding marks for CE. Benefits of attendance for a maximum of 10 days in a semester shall be granted to students who participate/attend University Union activities, meetings of the University Bodies and Extra Curricular Activities, on production of participation/attendance certificate by the University Authorities/Principals as the case may be. But in such cases, condonation will be considered for award of marks for CE.

7.12

Credit Transfer: The Credits acquired for Courses in other Universities within the country would be accepted on a reciprocal basis according to University norms. Credit transfer and accumulation system can be adopted in a Programme. Transfer of Credit consists of acknowledging, recognizing and accepting Credits by an Institution for Programmes or Courses completed at another Institution. The Credit transfer scheme shall allow students pursuing a Programme in one University to continue their education in another University without break. University should make provisions for transfer of credits for those who transfer inter-University or intra-University, provided the student has a minimum of 20 credits in the credit bank.

8. Boards of Studies, Courses and Syllabi

8.1

The Boards of Studies (in each subject) shall design all the Courses and syllabi for each Course in that subject offered in the First Degree Programme subject to the Regulations of the University. The Board shall design and introduce new Courses, modify or redesign existing Courses or replace any Course/Courses with new/modified Courses to ensure better exposure and training to students.

8.2

The syllabus for a Course shall include: Course Code, the title of the Course, the statement of the aims and objectives of the Course and the number of Credits; instructional hours in terms of lectures, tutorials, and laboratory sessions with the pre-requisites if any, for taking the Course. The Course content shall be given in a unitized manner along with a list of reading materials.

8.3

The syllabus for each Course shall include the mode of transacting that Course in terms of lectures, tutorials, seminars, laboratory sessions, field work, projects and such other activities.

8.4

The syllabus for each Course shall also indicate the scheme of evaluation/ examination.

8.5

Teachers should actively participate in all academic Programmes. At least two meetings of teachers be held in every Department of the Institutions in each semester to discuss the matters regarding syllabi,text books etc. The feedback from the students shall also be collected. The Head of the Department should compile all the suggestions/recommendations and forward the same to the Principal in writing for onward transmission to the University. This should be communicated to the Boards of Studies by the University. All Boards of Studies

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are to be requested to restructure the syllabi of the First Degree Programmes in tune with the current trends.

8.6

For laboratory sessions, the size of a batch shall depend upon the size of the laboratory, the facilities available for controlling and supervising the group of students and the availability of the number of instruments for individual use. The optimal number of students in a batch for a normal laboratory session under the supervision of a teacher will be 16. In Computer laboratory and Language laboratory, the number can be more, or less, depending upon the availability of infrastructure. There shall be at least one teacher to supervise a batch of not more than 16 students in each laboratory session.

8.7

For tutorials, a group shall not generally be more than 15 students.

8.8

For supervision of Dissertation/Project, each student shall be assigned to a teacher. Not more than 15 students shall be assigned to a particular teacher in a semester for such supervisory work.

8.9

There shall be a minimum of 15 students but not more than 75 students for Open Courses.

8.10

Maximum number of students for Language Course shall not be more than 50

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9. Evaluation and Grading

9.1

The Evaluation of each Course shall consists of two parts

1) Continuous Evaluation(CE)
2) End Semester Evaluation(ESE)

The CE and ESE ratio shall be 1:4 for both Courses with or without practical. There shall be a maximum of 80 marks for ESE and maximum of 20 marks for CE. For all Courses(Theory and Practical), Grades are given on a 7-point scale based on the total percentage of mark(CE+ESE) as given below.

Criteria for Grading

Percentage of marks	CCPA	Letter Grade
90 and above	9 and above	A+ Outstanding
80 to < 90	8 to<9	A Excellent
70 to <80	7to<8	B Very Good
60 to < 70	6to<7	C Good
50 to < 60	5to<6	D Satisfactory
40 to < 50	4to<5	E Adequate
Below 40	<4	F Failure

9.2 Continuous Evaluation (CE)

9.2.1

All records of Continuous Evaluation shall be kept in the Department and shall be made available for verification by the University, if and when necessary.

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9.2.2

Attendance(Max.marks 5):

The allotment of marks for attendance shall be as follows:

Attendance less than 75 %	1 Marks
75 % & less than 80%	2 Marks
80% & less than 85%	3 Marks
85% & less than 90%	4 Marks
90% & above	5 Marks

9.2.3

Assignments or Seminars: (Max. marks 5)

Each student shall be required to do one assignment or one seminar for each Course. Valued assignments shall be returned to the students. The seminars shall be organized by the teacher/teachers in charge of CE and the same shall be assessed by a group of teachers including the teacher/ teachers in charge of that Course. Assignments/Seminars shall be evaluated on the basis of their quality. The teacher shall define the expected quality of an assignment in terms of structure, content, presentation etc. and inform the same to the students. Due weight shall be given for punctuality in submission. Seminar shall be similarly evaluated in terms of structure, content, presentation, interaction etc.

9.2.4

Tests: (Max. marks 10)

For each Course there shall be one class test during a semester. Valued answer scripts shall be made available to the students for perusal within 10 working days from the date of the test.

9.2.5 Announcement of results of CE.

The results of the CE shall be displayed within 5 working days from the last day of a semester. Complaints regarding the award of marks for CE if any, have to be submitted to the Head of the Department within 3 working days from the display of results of CE. These complaints shall be examined by the Department Committee and shall arrive at a decision, which shall be communicated to the student.

9.2.6

The Statement of marks of the CE of all the students shall be approved by the Department Committee, countersigned by the Principal and forwarded to the Controller of Examinations within 15 working days from the last day of the semester. The University has the right to normalize the CE, if required, for which separate rules shall be framed.

9.3

End Semester Evaluation (ESE):

End Semester Evaluation of all the Courses in all the semesters shall be conducted by the University. The results of the ESE shall be arranged to be published according to the Examination Calendar prescribed by the University Level Monitoring Committee (ULMC), which shall not exceed 45 days from the last day of the examination (see Clause 7.4).

10. Project/Dissertation Work:

10.1

For each First Degree Programme there shall be a Project/Dissertation Work.

10.2

The Project/Dissertation work can be done either individually or by a group not exceeding five students. However, Viva-Voce based on the Project/Dissertation work shall be conducted individually.

10.3

The topics shall either be allotted by the supervising teacher or be selected by the students in consultation with the supervising teacher.

10.4

The report of the Project/ Dissertation shall be submitted to the Department in duplicate before the completion of the sixth semester. There shall be no continuous assessment for Dissertation / Project work.

10.5

A Board of two Examiners appointed by the University shall evaluate the report of the Project/Dissertation work.

10.6

The detailed guidelines regarding the conduct and evaluation of the Project/ Dissertation will be framed by the Boards of Studies concerned.

11. Social Service/Extension Activity:

11.1

It is mandatory for a student to participate in any one of the following Social Service/Extension Activities for not less than forty hours, during the 3rd and 4th semesters, for successful completion of the Programme.

1) Health Education
2) Peoples Planning Programme
3) Debate Club
4) Environmental Activities
5) Human Rights Forum
6) Community Health Activity
7) Kerala State Literacy Mission
8) Performing Arts Club-Folklore
9) Media Club
10) Community Based activities
11) NSS
12) NCC
13) Sports Club
14) Science Club
15) Nature Club/Eco Club
16) Theatre Club
17) Planning Forum
18) Literary Club
19) Women's Study Unit
20) Anti-Ragging Cell
21) State Library Council Affiliated of CACEE Rural Public Libraries

11.2

There shall be a General Co-ordinator to be nominated by the College Council, for the conduct of all these activities.

11.3

A statement testifying the participation of the students shall be forwarded to the Controller of Examinations along with the statement of CE results of the 4th semester.

11.4

Those who have not secured the minimum number of hours of Social Service/Extension Activity during the 3rd and 4th semester shall secure the

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minimum required attendance by attending such Programmes during the 5th semester. In such cases, the details about participation shall be forwarded to the Controller of Examinations, by the College authorities along with the Continuous Evaluation (CE) results of the 5th semester.

12 Grading System

12.1

Both CE and ESE will be carried out using Indirect Grading system on a 7-point scale.

12.2 Consolidation of Grades

The maximum mark for a Course (ESE theory) is 80. The duration of ESE is 3 hours.

12.3

The marks of CE shall be consolidated by adding the marks of Attendance, Assignment/ Seminar and Test paper respectively for a particular Course.

a	Attendance	5 marks
b	Assignment/Seminar	5 marks
c	Test Paper	10marks

12.4

Total marks for the ESE of Practical is 80.The components of ESE of Practical have to be set by the Chairmen, Boards of Studies, concerned.

12.5.

The marks for the components of Practical for Continuous Evaluation shall be as shown below.

a	Attendance	5 marks
b	Record	5 marks
c	Test	5 marks
d	Performance, Punctuality and Skill	5 marks

12.6

The marks of a Course are consolidated by combining the marks of ESE and CE (80+20).

12.7

A minimum of 40% marks (E Grade)is required for passing a Course with a separate minimum of 40%(E Grade) for Continuous Evaluation and End Semester Evaluation.

12.8

Consolidation of SCPA: SCPA is obtained by dividing the sum of Credit Points (CP) obtained in a semester by the sum of Credits (C) taken in that semester. After the successful completion of a semester, Semester Credit Point Average (SCPA) of a student in that semester shall be calculated.

Suppose the student has taken four Courses each of 4 Credits and two Courses each of 2 Credits in a particular semester, after consolidating the Grade for each Course. SCPA has to be calculated as shown in the example given below:

Consolidation of SCPA

Course Code	Title	Credit(C)	Marks(M)	Grades	Grade Points (G=M/10)	Credit Point CP=C*G
01	....	4	82	A	8.2	32.8
02	....	4	60	C	6.0	24.0
03	....	4	50	D	5.0	20.0
04	....	4	45	E	4.5	18.0
05	....	2	75	B	7.5	15.0
06	....	2	40	E	4.0	8.0
Total	....	20				119.8

SCPA= Total Credit Points/Total Credits=119.8/20=5.99=D Grade

12.9

For the successful completion of a semester, a student has to score a minimum SCPA of 4.00 (E Grade). However, a student is permitted to move to the next semester irrespective of his / her SCPA.

12.10

Consolidation of CCPA: An overall letter Grade (Cumulative Grade) for the whole Programme shall be awarded to the student based on the value of CCPA using a 7-point scale, as given below. It is obtained by dividing the sum of the Credit Points in all the Courses taken by the student, for the entire Programme by the total number of Credits.

Consolidation of CCPA

Semester	SCPA Credit Point(CP)	SCPA Credit(C)
1	119	20
2	120	20
3	110	20
4	105	20
5	100	20
6	120	20
Total	674	120

CCPA=Total Credit Points of all semesters/Total Credits of all semesters=674/120=5.62 =D Grade

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Overall Grade in a Programme

Percentage of marks	CCPA	Letter Grade
90 and above	9 and above	A+ Outstanding
80 to< 90	8 to<9	A Excellent
70 to< 80	7 to<8	B Very Good
60 to< 70	6 to<7	C Good
50 to< 60	5 to<6	D Satisfactory
40 to< 50	4 to<5	E Adequate
Below 40	<4	F Failure

12.11

The Marks of the Courses taken over and above the minimum prescribed Credits, shall not be counted for computing CCPA.

12.12

For the successful completion of a Programme and award of the Degree, a student must pass all Courses satisfying the minimum Credit requirement as given in clause 7.8 and must score a minimum CCPA of 4.00 or an overall grade of E

12.13

Pattern of Questions

Question Type	Total number of Questions	Number of Question to be answered	Marks for each Questions	Total Marks
Very short answer type(One word to Maximum of 2 sentences)	10	10	1	10
Short answer(Not to exceed one paragraph)	12	8	2	16
Short essay(Not to exceed 120 words)	9	6	4	24
Long essay	4	2	15	30
Total	35	26		80

12.14

Promotion to Higher Semesters: Students who complete the semester by securing the minimum required attendance as specified in clause 7.11 and who register for the End Semester Evaluation conducted by the University of each semester alone shall be promoted to the next higher semester.

12.15

Repetition of the Semester Courses: Students who fail to secure the minimum required aggregate attendance during a semester shall be given one chance to repeat the semester along with the subsequent batch of students after obtaining re-admission, subject to provision contained in clause 6.1 and they will have to repeat the CE for all Courses.

12.16

Re-appearance of Failed Students: "Students who fail shall have to reappear for the ESE of the same along with the next regular batch of students." Candidates who fail to score 'E' grade in the ESE in any of the Course/Courses have to reappear for the ESE of the Course /Courses concerned with next regular batch of students. The number of chances or such appearances is limited to 5 and the same have to be done within a period of 12 continuous semesters including the semester in which they have first appeared.

However, students who fail to secure SCPA of 4.00 have to reappear for the ESE with the next regular batch of students for such courses for which they have secured the least Grade for improving the SCPA. Here also the number of appearance is limited to 5 and the same has to be done within a period of 12 continuous semesters including the semester in which they have first appeared.

In both cases (i.e. failure to obtain 'E' Grade for individual Course/Courses and 'SCPA of 4.00) students shall not be allowed to repeat the semester, but the marks secured by them for the CE part shall be carried over and added to the marks obtained in the ESE they reappear. However, those who fail in the CE (i.e. those who fail to secure a minimum of 'E' grade) will have one chance to improve

the same (except the marks for attendance) along with next regular batch of students.

12.17 Improvement of ESE

Candidates who have successfully completed the Semester, but wish to improve their marks for the End Semester Evaluation (ESE) shall have only one chance for the same along with the next immediate regular batch of students. In this case, the better marks obtained shall be considered for the calculation of SCPA.

12.18

Grace Marks: Grace marks shall be awarded for Sports/Arts/ NCC/NSS in recognition of meritorious achievements.

13. Mark cum Grade Sheet

13.1

The University under its seal shall issue to the students a Mark cum Grade Sheet on completion of each semester indicating the details of Courses, Credits Marks for CE and ESE , Grades, Grade Points, Credit Points and Semester Credit Point Average (SCPA)for each Course.

13.2

The Consolidated Mark cum Grade sheet issued at the end of the final semester on completion of the Programme shall contain the details of all Courses taken during the entire Programme including Additional Courses taken over and above the prescribed minimum Credits for obtaining the Degree. However, for the calculation of CCPA, only those Courses in which the student has performed the best with maximum Credit Points alone shall be taken subject to the minimum requirements of Credits for successful completion of a Programme.The Consolidated Mark cum Grade sheet shall indicate the CCPA and CCPA(S)* and the overall letter grade for the whole Programme. The Consolidated Mark cum

Grade sheet shall also indicate all the Audit Courses (Zero Credit) successfully completed by the student during the whole Programme.

13.3.

No student shall be eligible for the award of the Degree unless he/she has successfully completed a Programme of not less than 6 semesters duration and secured at least 120 Credits (excluding Credits for Social Service/Extension Activities) as prescribed by the Regulations.

13.4

The Degree to be awarded shall be called Bachelors Degree in the respective discipline (e.g. B. Sc. in Chemistry, B A in English, B Com etc.) as specified by the Boards of Studies and in accordance with the nomenclature specified by the Act and Statutes of the University.

* CCPA(S) is CCPA for specialized subjects. (It is computed in a similar manner but without considering the Language Courses, Foundation Course for Language and Open Course).

14. Monitoring of the Programme

Monitoring of the First Degree Programmes shall be done by Committees at three levels viz., Department Level Monitoring Committee (DLMC), College Level Monitoring Committee (CLMC), and University Level Monitoring Committee (ULMC).

14.1

Department Level Monitoring Committee (DLMC): A Committee consisting of the Head of the Department and all teachers of the Department shall monitor the conduct of Courses and evaluation under CE. This Committee shall examine the complaints, if any, from aggrieved students regarding the evaluation. The Head of the Department shall be the Chairperson and a teacher selected by the DLMC from among the members shall be the Convener.

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14.2

College Level Monitoring Committee (CLMC): The College Level Monitoring Committee shall consist of the Principal, the Heads of the Departments and the elected representatives of teachers in College Council. The Principal shall be the Chairperson and a member selected by the CLMC from among the Heads of the Departments shall be the Convener. This Committee shall be responsible for the conduct of the First Degree Programmes, ensuring minimum instructional days, making arrangements for ESE (University Examinations) of various semesters etc. This Committee shall consider all the complaints not redressed by the DLMCs. While considering the complaints, by the CLMC, the College Union Chairperson shall be included as an invitee. The College Level Monitoring Committee shall be reconstituted by the Principal immediately on commencement of each academic year.

14.3

University Level Monitoring Committee (ULMC): The University Level Monitoring Committee (ULMC) shall be reconstituted by the Vice-Chancellor immediately on the commencement of each academic year.

The ULMC shall consist of the following members:

1) The Pro-Vice-Chancellor
2) Two Members of the Syndicate representing Teachers of the Affiliated Colleges nominated by the Vice-Chancellor.
3) A Dean nominated by the Vice-Chancellor
4) The Controller of Examinations
5) The Director, College Development Council (DCDC)
6) A Student Representative of the Syndicate
7) Two Members of the Academic Council nominated by the Vice-Chancellor

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The Pro-Vice-Chancellor shall be the Chairperson and DCDC shall be the Convener of the Committee. This committee shall be responsible for monitoring and conduct of the First Degree Programmes envisaged in this Regulations. This committee shall finalize the academic calendar and the conduct of the ESE in the colleges. This committee shall also serve as an appellate committee to examine and settle the complaints not redressed by the CLMC. The committee shall suggest amendments if any to the Regulations of the First Degree Programmes.

14.4

All Committees mentioned under Clause 14.1, 14.2 and 14.3 shall meet three times in a semester, at the beginning, middle and at the end of the semester.

14.5

All Committees shall be constituted at the beginning of each Academic Year

14.6

Quorum of the Committees

14.6.1

DLMC: 50% of the total number of the members in the Department shall form the quorum of this Committee. It is obligatory for the teacher/teacherin-charge of the CE for the particular Course/s to attend the meeting.

14.6.2

CLMC: 50% of the total number of members shall form the quorum of the Committee. It is obligatory for the Head of the Departments concerned, to be present in the meeting while a complaint pertaining to that Department is discussed in the Committee.

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14.6.3

ULMC: Five members shall constitute the **quorum for the meeting of this** Committee.

15. Transitory Provision

Notwithstanding anything contained in these Regulations, the Vice-Chancellor shall for a period of three years 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.

16. Repeal

Regulations now in force is so far as they are applicable to Programmes offered in the Affiliated Colleges as mentioned in 2.1 and 2.2 and to the extent they are inconsistent with these Regulations are hereby repealed. In the case of any inconsistency between the existing Regulations and the Regulations relating to First Degree Programmes under the Semester Pattern in the Affiliated Colleges and Centres of the University in their application to Courses offered in the Affiliated Colleges and Centres of the University as mentioned in 2.1, the latter shall prevail.

Schedule I

1. Course Structure for B.A/B.Sc. Degree Programmes

Study Components	Number of Courses	Credits/Course	Total Credits
Language Courses	.		
a)English	5	3-4	19
b)Additional	4	3-4	14
Language	2	2-3	5
Foundation Course			
Core Course	12-15	2-4	46-52
Complementary	8-10	2-3	22-28
Course	1	4	4
Project/Dissertation			2
Open Course	1	2	2
Elective Course	1	2	2

2. Course Structure for B. Com. Degree Programme

Study Components	Number of Courses	Credits/Course	Total Credits
Language Courses			
a)English	4	3-4	14
b)Additional	2	4	8
Language	2	2-3	5
Foundation Course			
Core Course	10	2-4	57
Complementary	4	3	12
Course	1	4	4
Project/Dissertation			
Open Course	1	2	2
Elective Course	1+4	2-4	18

Total number of Courses : 32 - 38

Minimum Duration : 6 semesters

Total Credits required for the Courses of Study : 120 Credits

Minimum Credit for Social Service/Extension Activity : 1 Credit.

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General Course Structure of the Career-related First Degree Programmes under CBCS system

All Programmes under schedule 2 are henceforth known as Career related First Degree Programmes. These Programmes are categorized into 2 groups viz. 2(a) & 2 (b).

2 (a)

Study Components	Number of Courses	Credits/Course	Total Credits
Language Courses			
a)English	4	3	12
b)Additional	2	3	6
Language	2	2-3	5
Foundation Course			
Core Course	12-14	2-4	38
Vocational Courses	10-12	2-4	35
Complementary	4-6	2-4	16
Course	1	4	4
Project/Dissertation			
Open Course	1	2	2
Elective Course	1	2	2

Accumulated Total Minimum Credits required for Programmes of study = 120 Credits.

Minimum Credits for Social Services/Extension Activity = 1 Credit

Minimum Duration = 6 semesters

Programmes offered under 2 (a)

1) Botany and Biotechnology

2) Environmental Science & Environment and Water Management

3) Biochemistry &Industrial Micro Biology

4) Physics & Computer Application

5) Chemistry & Industrial Chemistry

6) Journalism & Mass Communication and Video production

7) Malayalam and Mass Communication

8) English & Communicative English

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9) Commerce & Hotel Management and Catering

10) Commerce & Tax procedure and practice

11) Commerce and Tourism and Travel Management.

12) BPA (Vocal, Veena, Violin, Mridangam and Dance)

2 (b)

Study Components	Number of Courses	Credits/Course	Total Credits
Language Course English	2	2	4
Foundation Course	2	2-3	5
Core Course	20-32	2-4	74-98
Complementary	0-4	2-3	0-12
Course	1	4	4
Project/Dissertation			
Open Course	1	2	2
Elective Course	1-6	2-4	2-22

Accumulated Total Minimum Credits required for Programmes of study = 120 Credits.

Minimum Credits for Social Services/Extension Activity = 1 Credit

Minimum Duration = 6 Semesters

Programmes offered under 2 (b)

1) Biotechnology (Multimajor)

2) Commerce with Computer Application

3) Computer Science

4) Electronics

5) Computer Applications

6) Business Administration

7) Hotel Management and Catering Science

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3. Affiliating University letter stating implementation of CBCS.

UNIVERSITY OF KERALA

(Abstract)

First Degree Programmes under CBCS system – Regulations-Modified – Approved – Orders issued.
==

ACADEMIC 'A V' SECTION

No. Ac. A V/1/UG.Sem/2010   Dated, Thiruvananthapuram, 28.09.2013
==

Read:- 1. U.O. No. Acad.(CBCS)/1/UG Regu/2011 dated 08.07.2011.
2. Minutes of the meetings of the sub-committee of the Syndicate to study the report of Prof. S. Hrdaya Kumari Committee on CBCS system held on 31.08.2013, 03.09.2013, 04.09.2013 and 05.09.2013.
3. Item No. 23,132, Minutes of the meeting of the Syndicate held on 12.09.2013.

O R D E R

The Syndicate vide paper read as (3) above has approved the modified Regulations relating to the First Degree Programmes under CBCS system to be followed in the affiliated colleges and Centres of the University from 2013 admissions, as recommended vide paper read as (2) above, by the sub-committee of the Syndicate to study the report of Prof. S. Hrdaya Kumari Committee on CBCS system.

The Vice-Chancellor, subject to reporting to the Academic Council, has approved the modified Regulations relating to First Degree Programmes under CBCS system to be followed by the Affiliated Colleges and Centres of the University from 2013 admissions as recommended by the sub-committee of the Syndicate to study the report of Prof. S. Hrdaya Kumari Committee and as approved by the Syndicate. A copy of the Regulations is appended.

Orders are issued accordingly.

Sd/-
REGISTRAR

To
1. The Principals of all affiliated Colleges and Centres of the University
2. All Syndicate Members and members of UI MC
3. The Deans of Faculties, concerned
4. The Chairmen of Boards of Studies , concerned
5. The PS to VC / PVC
6. The PA to Registrar / CE / FO / DCDC
7. The Controller of Examinations
8. The Director, Computer Centre
9. The Director, CDC
10. JR (Exams / CBCS)
11. DR (Exams)
12. AR (Exams (CBCS) / ES / EB)
13. EB / ES EH (CBCS) sections
14. All tabulation section
15. Ac A I/Ac. A II / Ac. A III / Ac. A IV / Ac. C/Ac. L/ Ac. D/ Ac. E III/ Ad. Misc Ac. B Ac. BI/Ac. H sections
16. All KUTIC / DGIC
17. PRO/RO/Enquiry
18. Stock file / File Copy

Forwarded/By Order,

SECTION OFFICER

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4. Structure of the program clearly indicating courses, credits/ Electives as approved by the competent board.

UNIVERSITY OF KERALA

Revised Scheme & Syllabus for First Degree Programme in

B A ECONOMICS (CBCS SYSTEM) 201 ϡ

Semester I

Credits	Instructio nal hous	Course Title	Course No	Sem No
4	5	(Language Course I (English I	EN 1111	I
3	4	Language Course II (Addl (Language I	1111	
2	4	Foundation Course I	EN 1121	
4	6	Core I Introductory Micro Economics	EC 1141	
2	3	Complementary I	1131	
2	3	Complementary II	1131	
20	25	Total		

Semester II

Credits	Instructio nal hours	Course Title	Course No	Sem No
4	5	(Language Course III (English II	EN 1211	II
3	4	(Language Course IV (English III	1212	
3	4	(Language Course V (Addl. Lang II	1211	

1
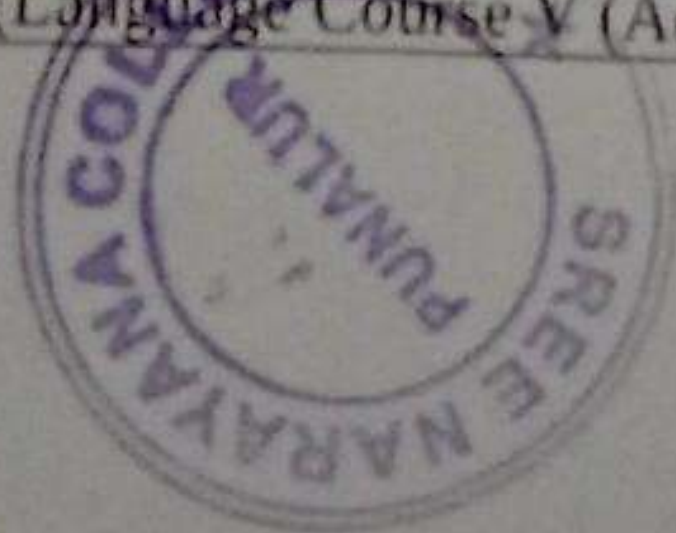
·4	6	Core II Intermediate Microeconomics	EC1241	
3	3	Complementary III	1231	
3	3	Complementary IV	1231	
20	25	Total		

Semester III

Credits	Instructional hours	Course Title	Course No	Sem No
4	5	(Language Course VI (English IV	EN 1311	III
4	5	(Language Course VII (Addl.Lan III	1311	
3	4	Foundation Course II Informatics for Applied Econometrics	EC1321	
4	5	Core III Introductory .Macroeconomics	EC1341	
3	3	Complementary V	1331	
3	3	Complementary VI	1331	
·21	25	Total		

Semester IV

Credits	Instructional hours	Course Title	Course No	Sem No
4	5	(Language Course VIII (English V	EN1411	IV
4	5	(Language Course IX (Addl.Lan IV	1411	
4	5	Core IV Mathematical Methods for Economics	EC1441	
3	4	Core V Intermediate Macroeconomics	EC1442	
3	3	Complementary VII	1431	
3	3	Complementary VIII	1431	
21	25	Total		

Semester V

Credits	Instructional hours	Course Title	Course No	Sem No
4	4	Core VI Methodology and Perspectives of Social Science	EC1541	V
4	4	Core VII Statistical Methods for Economics	EC1542	
4	4	Core VIII Readings in Political Economy	EC1543	
2	3	Core IX Economic Growth and Development	EC1544	

2
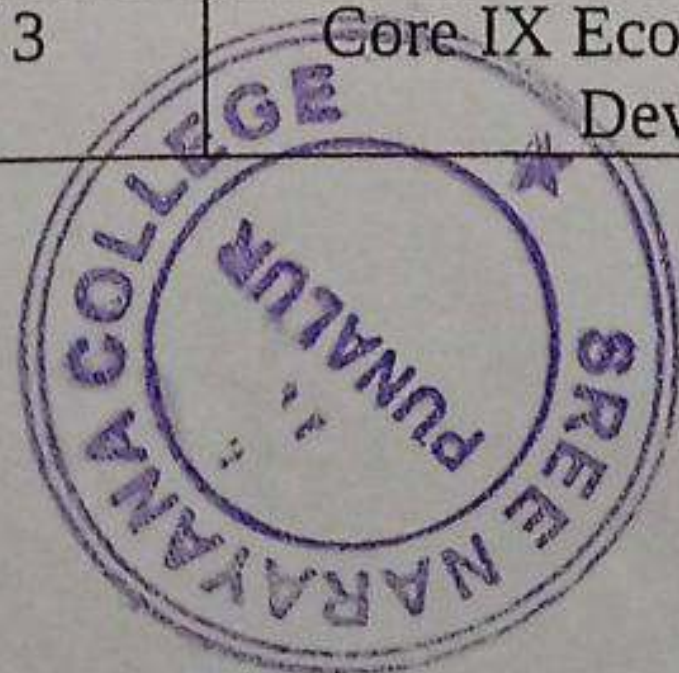
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3	4	Core X International Economics	EC1545	
2	3	Open Course I – Introductory Economics	EC1551. 1	
2	3	Human Resource Management	EC1551. 2	
2	3	Indian Economy Since Liberalisation	EC1551. 3	
-	3	Project / Dissertation		
.20	25	Total		

Semester VI

Credits	Instructio nal hours	Course Title	Course No	Sem No
4	5	Core XI Indian Economy	EC1641	VI
4	4	Core XII Banking and Finance	EC1642	
4	5	Core XII Public Economics	EC1643	
3	4	Core XII Environment Economics and Disaster Management	EC1644	
.2	4	Elective : Kerala Economy	EC1661. 1	
2	4	Mathematical Economics	1661.2	
2	4	Introductory Econometrics	1661.3	
2	4	History of Economic Thought	1661.4	
3	3	Project/Dissertation	EC 1645	
21	25			
120 .	150	Grand Total		

:Complementary Courses Offered
Complementary I
EC 1131 Foundations of Economic Theory
Complementary III
EC 1231 Money and Banking
Complementary V
EC 1331 Introduction to International trade and Public Economics
Complementary VII
EC 1431 Indian Economy Since Independence

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B.A. HISTORY (CBCSS)

Restructured Syllabus

Affiliated Colleges, Kerala University

For 2013 Admission (3rd to 6th semester) and

2014 Admission Onwards(1st to 6th semester)

Contents

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Scanned by TapScanner

SEM NO	COURSE NO	COURSE TITLES	INSTR: HRS	NO.OF CREDITS
I	EN 1111	Language Course I (English-1)	5	4
	M/H 1111	Language Course II (Addl. Language)	4	3
	EN 1121	Foundation Course I	4	2
	HY 1141	Core I-Methodology and Perspectives of Social Sciences	6	4
	HY 1131.1 (EC/IH/SG)	Complementary I-History of Modern India (1857-1900), For Economics, Islamic History and Sociology	3	2
	HY 1131.2 (EN/PL)	Complementary II- History of Modern World, (1789-1900), For English & Political Science	3	2
		Total	25	17
II	EN 1211	Language Course III (English II)	5	4
	EN1212	Language Course IV (English III)	4	3
	M/H 1211	Language Course V (Addl. Language II)	4	3
	HY 1241	Core II-Cultural Formation of the Pre-Modern World	6	4
	HY 1231.3 (EC/IH/SG)	Complementary III- History of Modern India (1901-1920), For Economics, Islamic History and Sociology	3	3
	HY 1231.4 (EN/PL)	Complementary 1V- History of Modern World, (1901-1920),for English & Political Science	3	3
		Total	25	20
III	EN 1311	Language Course V1 (English)	5	4
	M/H 1311	Language Course VII (Addl. Language III)	5	4
	HY 1321	Foundation Course II- Informatics	4	3
	HY 1341	Core 111-Evolution of the early Indian society &Culture	5	4
	HY 1331.5 (EC/IH/SG)	Complementary V-History of Modern India (1921-1947), For Economics, Islamic History and Sociology	3	3
	HY 1331.6 (EN/PL)	Complementary V1- History of Modern World, (1921-1945),For English & Political Science	3	3
		Total	25	21
IV	EN 1411	Language Course VIII (English V)	5	4
	M/H 1411	Language Course 1X (Addl. Language 1V)	5	4
	HY1441	Core 1V- Medieval India: Socio-Cultural Processes.	5	4
	HY1442	Core V-History Modern World – Part 1	4	3
	HY 1431.7 (EC/IH/SG)	Complementary VII-History of Modern India (after1948), For Economics, Islamic History and Sociology	3	3
	HY 1431.8 (EN/PL)	Complementary VIII- History of Modern World, (after1946), For English & Political Science	3	3
		Total	25	21

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V	HY1541	Core V1-Major trends in Historical thoughts and writings	4	4
	HY1542	Core V11-Colonialism and Resistance movements in India	4	4
	HY1543	CoreV111-History of Modern World – Part II	3	2
	HY1544	Core 1X-History of Pre- Modern Kerala	4	4
	HY1545	Core X-Making of Indian Nation	3	2
		Open Courses-		
	HY 1551.1	Empowerment of Women with special reference to India		
	HY 1551.2	An Introduction to Archaeology	3	2
	HY1551.3	History of Human Rights Movement.		
		Project/Dissertation		
		Historical Method-Mechanics Project Writing	3	0
		Study Tour		
		Total	25	20
V1	HY1641	Core **XI** - Making of Modern Kerala	5	4
	HY 1642	Core **XII** - Major trends in Indian Historical thought & writings	5	4
	HY1643	Core **XIII** - Contemporary India	5	4
	HY1644	Core **X1V** - Twentieth Century Revolutions	4	3
		Electives		
	HY1651.1	Historical Tourism	3	2
	HY1651.2	Heritage Studies		
	HY 1651.3	Contemporary World		
	HY1651.4	Empowerment of Women with special reference to India		
	HY1651.5	An Introduction to Archaeology		
	HY1651.6	History of Human Rights Movement.		
	HY1651.7	Environmental History of Modern India		
	HY1645	Project/Dissertation	3	4
		Total	25	21
		Grand Total	150	120

English Language Courses for 2(b) Programmes

SEMESTERS I & II - COURSE BREAKUP

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.4	Language Course 1: Listening and Speaking Skills	3	2
2	EN 1211.4	Language Course 2: Writing and Presentation Skills	3	2

UNDERGARDUATE PROGRAMMES

CAREER-RELATED FIRST DEGREE PROGRAMMES (CBCS System) in

JOURNALISM AND MASS COMMUNICATION & VIDEO PRODUCTION

SEMESTERS III to IV - COURSE BREAKUP

[2015 Admission onwards]

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1331.3	Complementary Course: Creative Writing [Career-related 2(a)]	5	4
2	EN 1431.3	Complementary Course: English for the Media	5	4

FIRST DEGREE PROGRAMMES (CBCS System) in B.A. ENGLISH & COMMUNICATIVE ENGLISH

SEMESTERS I to VI - COURSE BREAKUP

[2015 Admission onwards]

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.3	Language Course 1: Listening, Speaking, and Reading	5	4
1	CG 1121.3	Foundation Course 1: Writings on Contemporary Issues	3	2
1	CG 1141	Core Course 1: Reading Poetry	5	3
1	CG 1171	Vocational Course 1: Basics of Communication	3	3
1	CG 1131	Complementary Course 1: History of English Literature 1	4	4
1		Language Course 2 (Additional Language 1)	5	3
2	EN 1211.3	Language Course 3: Modern English Grammar and Usage	5	3
2	CG 1241	Core Course 2: Reading Drama	5	4
2	CG 1271	Vocational Course 2: Environmental Studies	6	4
2	CG 1231	Complementary Course 2: History of English Literature 2	4	4
2		Language Course 4 (Additional Language 2)	5	3
3	EN 1311.3	Language Course 5: Writing and Presentation Skills	5	4
3	CG 1321	Foundation Course 2: Informatics	4	3

			4	3
3	CG 1341	Core Course 3: Reading Fiction		
3	CG 1342	Core Course 4: 20thC Malayalam Literature in English Translation	3	3
3	CG 1331	Complementary Course 3: History of English Literature 3	4	4
3	CG 1371	Vocational Course 3: Copy Editing	4	4
4	EN 1411.3	Language Course 6 : Readings in Literature	5	4
4	CG1441	Core Course 5: Reading Prose	4	3
4	CG 1442	Core Course 6: World Classics	4	3
4	CG 1431	Complementary Course 4: History of English Language and Phonetics	4	4
4	CG 1471	Vocational Course 4: Print and Online Writing	4	4
4	CG 1472	Vocational Course 5: Theatre Studies	4	4
5	CG 1541	Core Course 7: Literary Criticism	5	4
5	CG 1542	Core Course 8: Film Studies	4	3
5	CG 1543	Core Course 9: Indian Writing in English	3	3
5	CG 1551.1	Open Course 1: Creative Writing		
	CG 1551.2	Open Course 1: Translation Studies	3	2
	CG 1551.3	Open Course 1: English for the Media		
5	PE 1551	Open Course 1: Health and Fitness Education	3	2
5	CG 1571	Vocational Course 6: English Language Teaching	4	4
5	CG 1572	Vocational Course 7: The Language of Advertisements	3	3
5	CG 1573	Vocational Course 8: Audio Visual Writing	3	3
6	CG 1641	Core Course 10: Travel Literature	5	3
6	CG 1642	Core Course 11: Women's Writing	5	3
6	CG 1643	Core Course 12: Methodology and Perspectives of Humanities	4	3
6	CG 1661.1	Elective Course: American Literature		
	CG 1661.2	Elective Course: Communicative Applications in English	3	2
6	CG 1671	Vocational Course 9: Technical English	3	3
6	CG 1672	Vocational Course 10: Business Communication in English	3	3
6	CG 1644	Project/Dissertation	3	4

FIRST DEGREE PROGRAMMES (CBCS System) in B.A. ENGLISH LANGUAGE & LITERATURE

SEMESTERS I to VI - COURSE BREAKUP

[2015 Admission onwards]

Sem No	Course No	Course Title	Instructional hours	cre lits
1	EN 1111.1	Language Course 1: Listening Speaking and Reading	5	4
1		Language Course 2: (Additional Language 1)	4	3
1	EN 1121	Foundation Course 1: Writings on Contemporary Issues	4	2
1	EN 1141	Core Course 1: Reading Poetry	6	4
1	EN 1131	Complementary Course 1: History of English Literature 1	3	3
1		Complementary Course 2 (External)	3	2
2	EN 1211.1	Language Course 3: Environmental Studies	6	4
2	EN 1212.1	Language Course 4: Modern English Grammar & Usage	4	3
2		Language Course 5: (Additional Language 2)	4	3
2	EN 1241	Core Course 2: Reading Drama	6	4
2	EN 1231	Complementary Course 3: History of English Literature 2	3	3
2		Complementary Course 4 (External)	3	3
3	EN 1311.1	Language Course 6: Writing and Presentation Skills	5	4
3		Language Course 7: (Additional Language 3)	5	4
3	EN 1341	Core Course 3: Reading Fiction	4	3
3	EN 1342	Core Course 4: 20th Century Malayalam Literature in English Translation	5	4
3	EN 1331	Complementary Course 5: History of English Literature 3	3	3
3		Complementary Course 6 (External)	3	3
3	EN 1331.3	Complementary Course : Creative Writing [Career 2(a)]	5	4
4	EN 1411.1	Language Course 8: Readings in Literature	5	4
4		Language Course 9: (Additional Language 4)	5	4
4	EN 1441	Core Course 5: Reading Prose	5	4
4	EN 1421	Foundation Course 2: Informatics	4	3
4	EN 1431	Complementary Course 7: History of English Language	3	2
4		Complementary Course 8 (External)	3	3
4	EN 1431.3	Complementary Course : English for the Media	5	4
5	EN 1541	Core Course 6: Literary Criticism	5	4
5	EN 1542	Core Course 7: Indian Literature in English	5	4
5	EN 1543	Core Course 8: Film Studies	3	2

3	CG 1341	Core Course 3: Reading Fiction	4	3
3	CG 1342	Core Course 4: 20ᵗʰC Malayalam Literature in English Translation	3	3
3	CG 1331	Complementary Course 3: History of English Literature 3	4	4
3	CG 1371	Vocational Course 3: Copy Editing	4	4
4	EN 1411.3	Language Course 6 : Readings in Literature	5	4
4	CG1441	Core Course 5: Reading Prose	4	3
4	CG 1442	Core Course 6: World Classics	4	3
4	CG 1431	Complementary Course 4: History of English Language and Phonetics	4	4
4	CG 1471	Vocational Course 4: Print and Online Writing	4	4
4	CG 1472	Vocational Course 5: Theatre Studies	4	4
5	CG 1541	Core Course 7: Literary Criticism	5	4
5	CG 1542	Core Course 8: Film Studies	4	3
5	CG 1543	Core Course 9: Indian Writing in English	3	3
5	CG 1551.1	Open Course 1: Creative Writing		
	CG 1551.2	Open Course 1: Translation Studies	3	2
	CG 1551.3	Open Course 1: English for the Media		
5	PE 1551	Open Course 1: Health and Fitness Education	3	2
5	CG 1571	Vocational Course 6: English Language Teaching	4	4
5	CG 1572	Vocational Course 7: The Language of Advertisements	3	3
5	CG 1573	Vocational Course 8: Audio Visual Writing	3	3
6	CG 1641	Core Course 10: Travel Literature	5	3
6	CG 1642	Core Course 11: Women's Writing	5	3
6	CG 1643	Core Course 12: Methodology and Perspectives of Humanities	4	3
6	CG 1661.1	Elective Course: American Literature		
	CG 1661.2	Elective Course: Communicative Applications in English	3	2
6	CG 1671	Vocational Course 9: Technical English	3	3
6	CG 1672	Vocational Course 10: Business Communication in English	3	3
6	CG 1644	Project/Dissertation	3	4

5	EN 1544	Core Course 9: Linguistics and Phonetics	4	4
5	EN 1545	Core Course 10: Post Colonial Literatures in English	5	4
5	EN 1551.1	Open Course 1: Communicative Applications in English		
	EN 1551.2	Open Course 1: Theatre Studies	3	2
	PE 1551	Open Course 1: Health and Fitness Education		
6	EN 1641	Core Course 11: World Classics	5	4
6	EN 1642	Core Course 12: Methodology & Perspectives of Humanities	5	4
6	EN 1643	Core Course 13: English for the Media	5	4
6	EN 1644	Core Course 14: Women's Writing	4	3
6	EN 1661.1	Elective Course : Translation Studies		
	EN 1661.2	Elective Course: Copy Editing	3	2
	EN 1661.3	ElectiveCourse: Creative Writing		
6	EN 1645	Project	3	4

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English Language Courses for 2(b) Programmes

SEMESTERS I & II - COURSE BREAKUP

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.4	Language Course 1: Listening and Speaking Skills	3	2
2	EN 1211.4	Language Course 2: Writing and Presentation Skills	3	2

UNDERGARDUATE PROGRAMMES

CAREER-RELATED FIRST DEGREE PROGRAMMES (CBCS System) in

JOURNALISM AND MASS COMMUNICATION & VIDEO PRODUCTION

SEMESTERS III to IV - COURSE BREAKUP

[2015 Admission onwards]

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1331.3	Complementary Course: Creative Writing [Career-related 2(a)]	5	4
2	EN 1431.3	Complementary Course: English for the Media	5	4

FIRST DEGREE PROGRAMMES (CBCS System) in B.A. ENGLISH & COMMUNICATIVE ENGLISH

SEMESTERS I to VI - COURSE BREAKUP

[2015 Admission onwards]

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.3	Language Course 1: Listening, Speaking, and Reading	5	4
1	CG 1121.3	Foundation Course 1: Writings on Contemporary Issues	3	2
1	CG 1141	Core Course 1: Reading Poetry	5	3
1	CG 1171	Vocational Course 1: Basics of Communication	3	2
1	CG 1131	Complementary Course 1: History of English Literature 1	4	4
1		Language Course 2 (Additional Language 1)	5	3
2	EN 1211.3	Language Course 3: Modern English Grammar and Usage	5	3
2	CG 1241	Core Course 2: Reading Drama	5	4
2	CG 1271	Vocational Course 2: Environmental Studies	6	4
2	CG 1231	Complementary Course 2: History of English Literature 2	4	4
2		Language Course 4 (Additional Language 2)	5	3
3	EN 1311.3	Language Course 5: Writing and Presentation Skills	5	4
3	CG 1321	Foundation Course 2: Informatics	4	3

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SREE NARAYANA COLLEGE

FIRST DEGREE PROGRAMMES (CBCS System)

English Language /Foundation Courses for BA/BSc Programmes

SEMESTERS I to IV - COURSE BREAKUP

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.1	Language Course 1: Listening, Speaking, and Reading	5	4
1	EN 1121	Foundation Course 1: Writings on Contemporary Issues	4	2
2	EN 1211.1	Language Course 3: Environmental Studies	6	4
2	EN 1212.1	Language Course 4: Modern English Grammar and Usage	4	3
3	EN 1311.1	Language Course 6: Writing and Presentation Skills	5	4
4	EN 1411.1	Language Course 8: Readings in Literature	5	4

English Language Courses for BCom Programmes
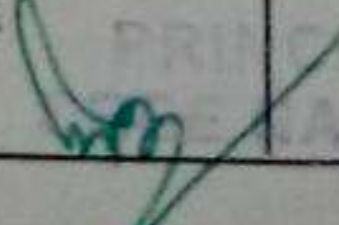
SEMESTERS I to IV - COURSE BREAKUP

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.2	Language Course 1: Listening, Speaking, and Reading	5	4
2	EN 1211.2	Language Course 3: Modern English Grammar and Usage	5	4
3	EN 1311.2	Language Course 4: Writing and Presentation Skills	3	3
4	EN 1411.2	Language Course 6 : Readings in Literature	3	3

English Language/Complementary Courses for 2(a) Programmes

SEMESTERS I to IV - COURSE BREAKUP

Sem No	Course No	Course Title	Instructional hours	credits
1	EN 1111.3	Language Course 1: Listening Speaking and Reading	5	4
2	EN 1211.3	Language Course 3: Modern English Grammar and Usage	5	3
3	EN 1311.3	Language Course 5: Writing and Presentation Skills	5	4
3	EN 1331.3	Complementary Course 3: Creative Writing [Career related – 2(a)]	5	4
4	EN 1411.3	Language Course 6 : Readings in Literature	5	4
4	EN 1431	Complementary Course 4: English for the Media [Career related - 2(a)]	5	

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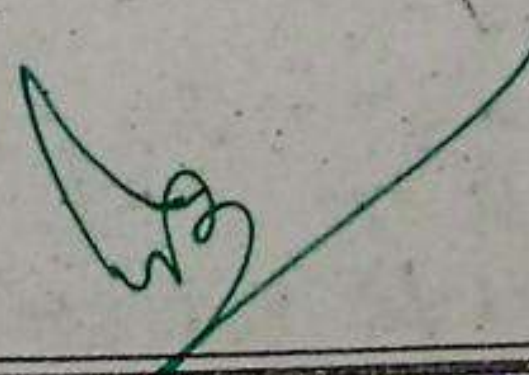
<mark>Scheme and syllabus for the First Degree Programme in Commerce</mark>

Under the Choice Based Credit and Semester System (CBCSS)
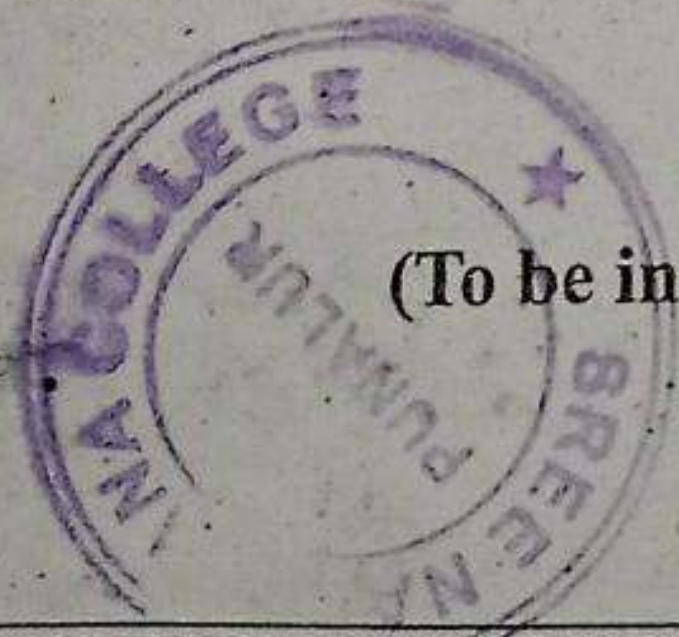
(To be introduced from 2018 admissions)

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5. Chapter I – Introduction, Review of Literature, Statement of the Problem, Need and Significance of the study, Objectives, Methodology and Chapterisation scheme (5-8 pages)

6. Chapter II - Theoretical Background and Secondary data (10-15 pages)

7. Chapter III – Data analysis and Interpretation

8. Chapter IV – Summary of Findings, Suggestions and Conclusion

9. Appendix – Questionnaire, Specimen copy of forms, other exhibits etc.

10. Bibliography – Source of secondary data – Books, Journals, Websites etc.

The student secures the credits assigned to a course on successful completion of the course. The student shall be required to earn a minimum of 120 credits including credits for language courses, foundation courses, core courses, complementary courses (as the case may be), project and open/ elective courses within a minimum period of six semesters for the award of the Degree excluding credits required for social service/ extension activities. The minimum credits required for different courses are given below:

Courses	Credits
Language courses	22
Foundation courses	5
Core courses including project	61
Complementary courses	12
Open/ elective courses	20
	120
Social Service/ Extension activities	1
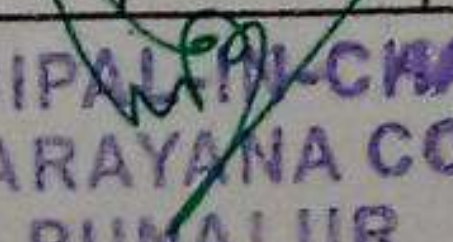
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General Structure for the First Degree Programme in Commerce

Sem No.	Courses	Instructional Hours Per Week	Credits	Uty Exam Duration (Hours)	Evaluation		Total credits
					Internal	End Semester Exam	
SEMESTER I	Language Course I (English I)	5	4	3	20%	80%	19
	Language Course II (Addl. Language I)	4	4	3	20%	80%	
	Foundation Course I	4	2	3	20%	80%	
	Core Course I	4	3	3	20%	80%	
	Core Course II	4	3	3	20%	80%	
	Complementary Course I	4	3	3	20%	80%	
SEMESTER II	Language Course III (English II)	5	4	3	20%	80%	20
	Language Course IV (Addl. Language II)	4	4	3	20%	80%	
	Foundation Course II	4	3	3	20%	80%	
	Core Course III	4	3	3	20%	80%	
	Core Course IV	4	3	3	20%	80%	
	Complementary Course II	4	3	3	20%	80%	
SEMESTER III	Language Course V (English III)	3	3	3	20%	80%	20
	Core Course V	4	3	3	20%	80%	
	Core Course VI	4	3	3	20%	80%	
	Core Course VII	5	4	3	20%	80%	
	Elective Course I	5	4	3	20%	80%	
	Complementary Course III	4	3	3	20%	80%	
SEMESTER IV	Language Course VI (English IV)	3	3	3	20%	80%	21
	Core Course VIII	4	3	3	20%	80%	
	Core Course IX	4	4	3	20%	80%	
	Core Course X	5	4	3	20%	80%	
	Elective Course II	5	4	3	20%	80%	
	Complementary Course IV	4	3	3	20%	80%	
SEMESTER V	Core Course XI	4	4	3	20%	80%	18
	Core Course XII	5	4	3	20%	80%	
	Core Course XIII	5	4	3	20%	80%	
	Open Course I	3	2	3	20%	80%	
	Elective Course III	5	4	3	20%	80%	
	Project	3	-	-	20%	80%	
SEMESTER VI	Core Course XIV	4	4	3	20%	80%	22
	Core Course XV	5	4	3	20%	80%	
	Core Course XVI	5	4	3	20%	80%	
	Open Course II	3	2	3	20%	80%	
	Elective Course IV	5	4	3	20%	80%	
	Project	3	4	-		100%	

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PROGRAMME STRUCTURE

SEMESTER – I

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Language Course I	EN 1111	English I	5	-	3	-	4
Language Course II	1111	Additional Language I	4	-	3	-	4
Foundation Course I	CO 1121	Methodology and Perspectives of Business Education	4	-	3	-	2
Core Course I	CO 1141	Environmental studies	4	-	3	-	3
Core Course II	CO 1142	Management Concepts and Thoughts	4	-	3	-	3
Complementary Course I	CO 1131	Managerial Economics	4	-	3	-	3
		Total	25				19

SEMESTER II

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Language Course III	EN 1211	English II	5	-	3	-	4
Language Course IV	1211	Additional Language II	4	-	3	-	4
Foundation Course II	CO 1221	Informatics and Cyber Laws	4	-	3	-	3
Core Course III	CO 1241	Financial Accounting	4	-	3	-	3
Core Course IV	CO 1242	Business Regulatory Framework	4	-	3	-	3
Complementary Course II	CO 1231	Business Mathematics	4	-	3	-	3
		Total	25				20

SEMESTER – III

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Language Course V	EN 1311	English III	3	-	3	-	3
Core Course V	CO 1341	Entrepreneurship Development	4	-	3	-	3
Core Course VI	CO 1342	Advanced Financial Accounting	5	-	3	-	4
Core Course VII	CO 1343	Company Administration	4	-	3	-	3
Elective Course I	CO 1361	Elective stream 1/2/3/4/5	5(1)	(4)	3	(1.5)	4
Complementary Course III	CO 1331	E-Business	4	-	3	-	3
		Total	25(21)	(4)			20

Figures in brackets are applicable only for computer application stream

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SEMESTER IV

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Language Course VI	EN 1411	English IV	3	-	3	-	3
Core Course VIII	CO 1441	Indian Financial Markets	4	-	3	-	3
Core Course IX	CO 1442	Banking and Insurance	4	-	3	-	4
Core Course X	CO 1443	Corporate Accounting	5	-	3	-	4
Elective Course II	CO 1461	Elective stream 1/2/3/4/5	5(1)	(4)	3	(1.5)	4
Complementary Course IV	CO 1431	Business Statistics	4	-	3	-	3
		Total	25(21)	(4)			21

Figures in brackets are applicable only for computer application stream

SEMESTER V

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Core Course XI	CO 1541	Fundamentals of Income Tax	5	-	3	-	4
Core Course XII	CO 1542	Cost Accounting	5	-	3	-	4
Core Course XIII	CO 1543	Marketing Management	4	-	3	-	4
Open Course I	CO 1551	Open Course – 1/2/3	3	-	3	-	2
Elective Course III	CO 1561	Elective stream 1/2/3/4/5	5(1)	(4)	3	(1.5)	4
Project	-	Project	3	-	-	-	-
		Total	25(21)	(4)			18

Figures in brackets are applicable only for computer application stream

SEMESTER VI

Courses	Course Code	Course Title	Instructional Hours Per Week		End Semester Exam Hours		Credit
			Theory	Practical	Theory	Practical	
Core Course XIV	CO 1641	Auditing	4	-	3	-	4
Core Course XV	CO 1642	Applied Costing	5	-	3	-	4
Core Course XVI	CO 1643	Management Accounting	5	-	3	-	4
Open Course II	CO 1651	Open Course – 1/2/3	3	-	3	-	2
Elective Course IV	CO 1661	Elective stream 1/2/3/4/5	5(1)	(4)	3	(1.5)	4
Project	CO 1644	Project	3	-	-	-	4
		Total	25(21)	(4)			22
		Grand Total (SI+SII+SIII+SIV+SV+SVI)					120

Figures in brackets are applicable only for computer application stream
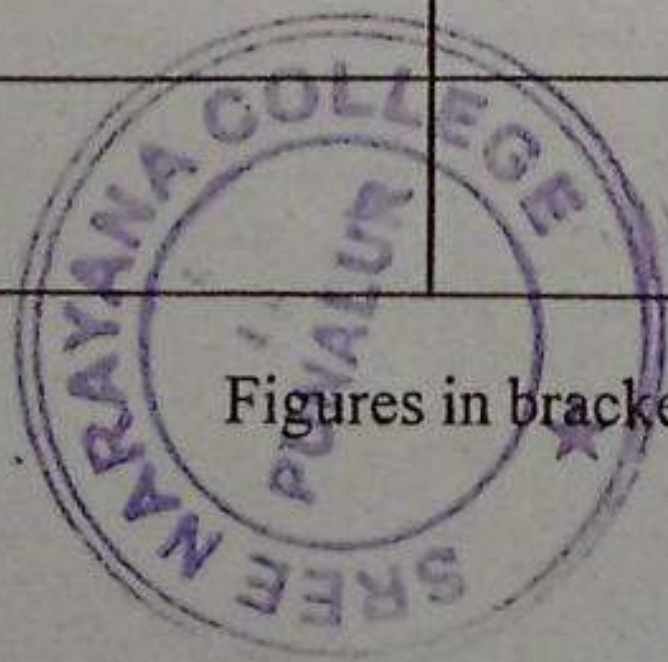
ELECTIVE STREAMS

Semester	Course Code	Course Title
III	CO 1361.1	Financial Management
IV	CO1461.1	Project Finance
V	CO 1561.1	Financial Services in India
VI	CO 1661. 1	Taxation Laws and Accounts

2. CO-OPERATION

Semester	Course Code	Course Title
III	CO 1361.2	Principles of Co-operation
IV	CO1461.2	Co-operative Management and Administration
V	CO 1561.2	Co-operative Legal System
VI	CO 1661. 2	Co-operative Accounting

3. TRAVEL AND TOURISM

Semester	Course Code	Course Title
III	CO 1361.3	Tourism: Principles and Practice
IV	CO1461.3	Tourism Products
V	CO 1561.3	Hospitality Management
VI	CO 1661.3	Travel Agency, Tour operation and Airline Management

4. INSURANCE AND BANKING

Semester	Course Code	Course Title
III	CO 1361.4	Principles and Practice of Life Insurance
IV	CO1461.4	Principles and Practice of General Insurance
V	CO 1561.4	Indian Banking System
VI	CO 1661.4	Practical Banking

5. COMPUTER APPLICATION

Semester	Course Code	Course Title
III	CO 1361.5	Computer Application for Publication
IV	CO1461.5	Software for Data Management
V	CO 1561.5	Web Designing and Production for Business
VI	CO 1661.5	Computerised Accounting

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OPEN COURSES

Semester	Course Code	Course Title
V (for students from disciplines other than Commerce	CO 1551.1	Fundamentals of Financial Accounting
	CO 1551.2	Principles of Management
	CO 1551.3	Capital Market Operations
VI (for students from the Department of Commerce)	CO 1651.1	Practical Accounting
	CO 1651.2	Management of Foreign Trade
	CO 1651.3	Strategic Management

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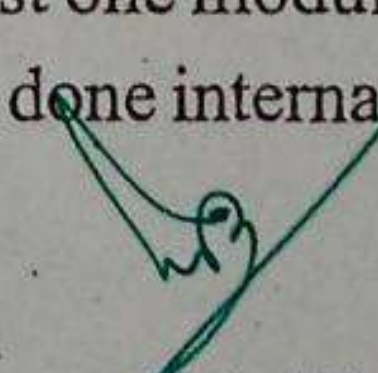
1. Each candidate has to choose an elective stream which contains four courses, one each in the third, fourth, fifth and sixth semesters.

2. The open course offered in the fifth semester is an elective course for students from the Disciplines other than Commerce. He/ She can choose any one among the courses offered in that group as part of his/ her course of study.

3. The open course offered in the sixth semester is an elective course for students from the Department of Commerce and each student has to choose any one among the courses offered in that group as part of his/ her course of study.

4. Of the five instructional hours per week allotted to the elective stream Computer Application, 1 hour per week shall be for theory and 4 hours per week shall be for practical. The practical records shall be prepared, duly certified by the teacher concerned and countersigned by the Head of the Department shall be produced at the time of practical examination and viva - voce. Of the 4 credits given to each of the Computer Application courses in the third, fourth, fifth and sixth semesters, 2 credits shall be for theory and 2 credits shall be for practical. The maximum marks for evaluation of the practical examination shall be 80 marks, distributed among the following components of evaluation:

    (i) Output of the Practical - 50

    (ii) Practical Record - 15

    (iii) Viva-voce - 15

All courses included under Foundation Courses, Core Courses, Complementary Courses, Open and Elective Courses shall be handled by teachers in Commerce.

V. Practical Sessions

Practical sessions are included for all Core and Elective Courses of B. Com Programme. This shall be on a module basis and needs to be included for at least one module where learning through experiencing has maximum relevance. Evaluation will be done internally.

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M.Sc Degree Program (effective from 2018 - 19) Branch

A: COURSE STRUCTURE & MARK DISTRIBUTION

Semester	Paper Code	Title of Paper	Contact hours per week			UE duration (h)	Maximum marks		
			L	T	P		IA	UE	Total
I	PH 211	Classical Mechanics	6	1	...	3	25	75	100
	PH 212	Mathematical Physics	6	1	...	3	25	75	100
	PH 213	Basic Electronics	6	1	...	3	25	75	100
	PH 251	General Physics Practicals	...	1	3	...	...	...	...
	PH 252	Electronics & Computer Science Practicals	...	1	4	...	...	...	...
		Total for Semester I (S1)	18	5	7	...	75	225	300
II	PH 221	Modern Optics & Electromagnetic theory	6	1	...	3	25	75	100
	PH 222	Thermodynamics, Statistical Physics & Basic Quantum Mechanics	6	1	...	3	25	75	100
	PH 223	Computer Science & Numerical Techniques	6	1	...	3	25	75	100
	PH 251	General Physics Practicals	...	1	3	6	25	75*	100
	PH 252	Electronics & Computer Science Practicals	...	1	4	6	25	75*	100
		Total for Semester II (S2)	18	5	7	...	125	375	500

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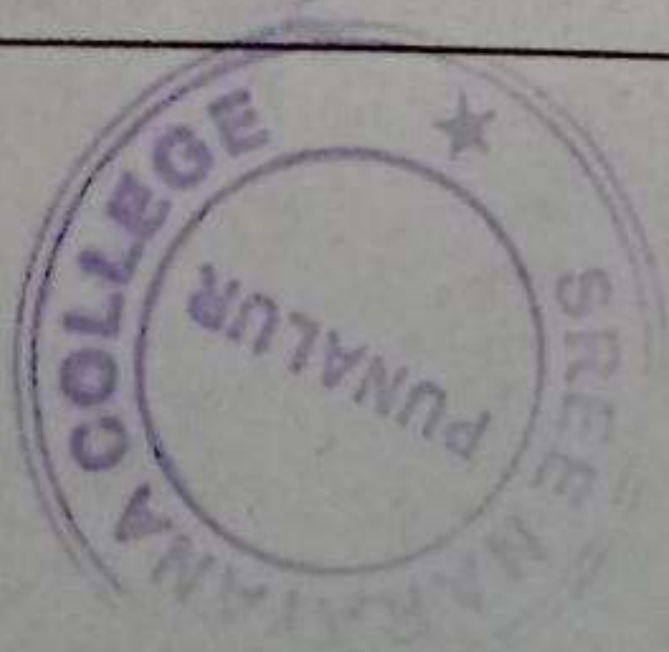
	Code	Title	L	T	P	C	IA	UE	Total
III	PH 231	Advanced Quantum Mechanics	6	1	...	3	25	75	100
	PH 232	Atomic and Molecular Spectroscopy	6	1	...	3	25	75	100
	PH 233 X	Special Paper I	6	1	...	3	25	75	100
	PH 261	Advanced Physics Practicals	...	1	4	...			
	PH 261	Advanced Electronics Practicals	...	1	3	...			
	Total for Semester III (S3)		18	5	7		75	225	300
IV	PH 241	Condensed Matter Physics	6	1	...	3	25	75	100
	PH 242	Nuclear & Particle Physics	6	1	...	3	25	75	100
	PH 243 X	Special Paper II	6	1	...		25	75	100
	PH 261	Advanced Physics Practicals	...	1	3	6	25	75*	100
	PH 262	Advanced Electronics Practicals	...	...	4	6	25	75*	100
	PH 201	Project	...	...	...	...	25	75	100
	PH 202	Viva voce	...	...	...	...	...	100	100
	Total for Semester IV (S4)		18	5	7	...	150	550	700
	Grand Total		72	20	28	...	425	1375	180(

* 10 marks for records

X: E (Electronics), M (Materials Science) N (Nuclear Physics), S (Space Physics) T (Theoretical Physics)

L - Lecture IA - Internal Assessment

T - Tutorial UE - University Exam

P - Practical

4

B: SPECIAL PAPERS FOR THIRD AND FOURTH SEMESTERS

Sl. No	Special paper Category	Code Nos of	Name of Special Papers
1	ELECTRONICS	PH 233 E	Advanced Electronics-I
		PH 243 E	Advanced Electronics-II
2	MATERIALS SCIENCE	PH 233 M	Materials Science-I
		PH 243 M	Materials Science-II
3	NUCLEAR PHYSICS	PH 233 N	Advanced Nuclear Physics
		PH 243 N	Radiation Physics
4	SPACE PHYSICS	PH 233 S	Space Physics and Plasma
		PH 243 S	Physics Advanced
5	THEORETICAL PHYSICS	PH 233 T	Theoretical Physics-1
		PH 243 T	Theoretical Physics-2

C: GENERAL GUIDELINES

C-1 Theory papers

Books of study and corresponding chapters are given for most of the theory papers in the syllabus to define the scope of the syllabus.

For internal evaluation of theory papers at least one Viva must be conducted for each paper

For assignments and seminars current developments in the areas of the syllabus may be chosen for improving the general awareness of the student

In tutorial sessions of theory papers problem solving in different topics of the syllabus may be discussed.

C-2 Lab Courses

Rough records may be properly maintained for each practical paper and should be produced during the University Practical Examinations along with original record book.

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REVISED SYLLABI FOR
FIRST DEGREE PROGRAMME IN
PHYSICS

UNDER CHOICE BASED
CREDIT AND SEMESTER SYSTEM
(CBCSS)

(2018 ADMISSION ONWARDS)

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PRINCIPAL EDWARDS
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I. General Structure for the First-Degree Programme in Physics

Sem. No.	Course title	Instructional hours/week L	Instructional hours/week P	Credit	University Exam duration	Evaluation Internal	Evaluation Uty. Exam	
I	EN1111 English Lang I	5		4	3 hours			
	1111 Addl Lang I	4		3	"			
	EN1121 Foun Course I	4		2	"	20%	80%	
	PY1141 Core Course I	2		2	"			
	Core pract. I	-	2	-	"			
	MM1131.1 Compl. Course I	2	2	3	3 hours			
	Compl. Course II	2	2	2	"			
	(CH1131.1/ST1131.2/ PCH1131.7/EL1131)							
II	EN1211 Eng Lang. II	5		4	3 hours			
	EN1212 Eng Lang. III	4		3	"			
	1211 Addl Lang. II	4		3	"	20%	80%	
	PY1241 Core Course II	2		2	"			
	Core pract. I		2					
	MM1231.1 Compl. Course III	2	2-	3	"			
	Compl. Course IV	2	2	2	"			
	(CH1231.1/ST1231.2/ PCH1231.7/EL1231)							
III	EN1311 Eng Lang. IV	5		4	3 hours			
	1311 Addl Lang. III	5		4	"			
	PY1341 Core Course II	3	-	3	"	20%	80%	
	Core Pract I	-	2	-	"			
	MM1331.1 Compl. Course V	3	2	4	3 hours			
	Compl. Course VI	3	2	3	"			
	(CH1331.1/ST1331.2/ PCH1331.7/EL1331)							
IV	EN1411 Eng Lang. V	5		4	3 hours			
	1411 Addl Lang. IV	5		4	"			
	PY1441 Core Course III	3		3	"	20%	80%	25

Sem. No.	Course title	Instructional hours/week		Credit	University Exam duration	Evaluation		Total credit
		L	p			Internal	Uty. Exam	
	PY 1442 Core (Pract I) IV	·	2	3	,,			
	MM1431.1 Compl. Course VII	5	-	4	3 hours			
	Compl. Course VIII	3	-	3	,,			
	(CH1431.1/ST1431.2/ PCH1431.7/EL1431)							
	Compl. (Practical) IX	-	2	4	,,			
	(CH1432.1/ST1432.2/ PCH1432.7/EL1432)							
V	PY1541 Core Course V	4	-	4	3 hours			
	PY1542 Core Course VI	4	-	4	,,			
	PY1543 Core Course VII	4	-	4	,,	20%	80%	18
	PY1544 Core Course VIII	4	-	4	,,			
	Core (Practical II)	-	4	-	-			
	Open Course	3	-	2	3 hours			
	(PY1551.1/PY1551.2/PY1551.3/ PY1551.4/ PY1551.5)							
	Project	-	2	-	-			
VI	PY1641 Core Course IX	4	-	4	3 hours			
	PY1642 Core Course X	4	-	4	,,			
	PY1643 Core Course XI	4	-	4	,,	20%	80%	26
	PY1644 Core Course XII	4	-	3	,,			
	PY1645 Core (Pract II) XIII	-	2	2	,,			
	PY1646 Core (Pract III) XIV	-	2	3	,,			
	Elective Course	3	-	2	,,			
	(PY1661.1/PY1661.2/PY1661.3/ PY1661.4/PY1661.5)							
	PY1647 Project and Research	-	2	4	-			
	Institute/Science Museum visit							
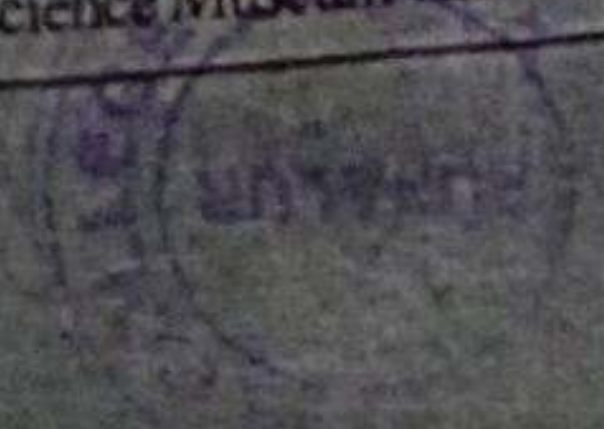
II. Course structure:(1a). *Core Courses (theory)*

Sem.	Title of paper	Number of hours per week	Number of credits	Total hours/ semester	UE Duration
1	PY1141 – Basic mechanics & Properties of matter	2	2	36	3 hrs
2	PY1241- Heat & Thermodynamics	2	2	36	3
3	PY1341–Electrodynamics	3	3	54	3
4	PY1441- Classical &Relativistic Mechanics	3	3	54	3
5	PY1541– Quantum Mechanics	4	4	72	3
	PY1542–Statistical Mechanics Research Methodology and Disaster Management	4	4	72	3
	PY1543–Electronics	4	4	72	3
	PY1544–Atomic & Molecular Physics	4	4	72	3
	PY1551– Open course	3	2	54	3
6	PY1641-Solid State Physics	4	4	72	3
	PY1642–Nuclear & Particle Physics	4	4	72	3
	PY1643- Classical & Modern Optics	4	4	72	3
	PY1644-Digital Electronics & Computer Science	4	3	72	3
	PY1661– Elective Course	3	2	54	3

(1b). COURSE STRUCTURE FOR PRACTICAL AND PROJECT WORK FOR THE CORE COURSE:

Sem.	Title of Paper	Duration of Exam.	Number of Credits	Weightage IA	Weightage UE	Allotted hours Per week	Allotted hours Per year
4	PY1442- Basic Physics Lab 1	3	3	1	3	S1—2 S2—2 S3—2 S4—2	144
6	PY1645-Advanced Physics Lab 2	3	2	1	3	S5—2 S6—2	72
	PY1646-Advanced Physics Lab 3	3	3	1	3	S5—2 S6—2	72
	PY-1647-Project	-	4	-	4	S5-2 S6-2	72

Semester	Title of the course	No. of hours/week	No. of credits	Total credits	Total hours per sem.	UE duration
6. Electronics for Physics B.Sc Programme						
1	EL1131- Electronics I	2	2	2	36	3
	Practical	2			36	
2	EL1231- Electronics II	2	2	2	36	3
	Practical	2			36	
3	EL1331- Electronics III	3	3	3	54	3
	Practical	2			36	
4	EL1431- Electronics IV	3	3	7	54	3
	EL1432- Practical	2	4		36	3
7. Physics for Polymer Chemistry B.Sc Programme						
1	PY1131.7–Mechanics and Fluid dynamics	2	2	2	36	3
	Practical	2			36	
2	PY1231.7- Thermal Physics	2	2	2	36	3
	Practical	2			36	
3	PY1331.7- Modern Optics & Electricity	3	3	3	54	3
	Practical	2			36	
4	PY1431.7-Atomic Physics and Electronics	3	3	7	54	3
	PY1432- Practical	2	4		36	3

III. QUESTION PAPER PATTERN

For all semesters

1. The examination has duration of 3 hours
2. Each question paper has four parts A, B, C & D.
3. Part A contains 10 questions and the candidate has to answer all questions. Each question carries 1mark. The answer may be in the forms-one word/one sentence
4. Part B contains 12 short answer questions. Out of these 12 questions, the candidate has to answer 8 questions. Each question carries 2marks.
5. Part C contains 9 questions of which the candidate has to answer 6 of them.

Each question carries 4 marks.

6. Part D contains 4 long answer questions (essays) of which the candidate has to answer 2 questions. Each question carries 15 marks.

7. The total weightage for the entire questions to be answered is 80 marks.

3. Physics for Statistics B.Sc Programme

Semester	Title of the course	No. of hours / week	No. of credits	Total credits	Total hours per sem.	U.E. duration
1	PY1131.3- Mechanics & properties of matter	2	2	2	36	3
	Practical	2			36	
2	PY1231.3- Thermal Physics & statistical mechanics	2	2	2	36	3
	Practical	2			36	
3	PY1331.3- Optics, Magnetism & electricity	3	3	3	54	3
	Practical	2			36	
4	PY1431.3- Modern physics & Electronics	3	3	7	54	3
	PY1432- Practical	2	4		36	3

4. Physics for Geology B.Sc Programme

Semester	Title of the course	No. of hours / week	No. of credits	Total credits	Total hours per sem.	U.E. duration
1	PY1131.4- Mechanics & properties of matter	2	2	2	36	3
	Practical	2			36	
2	PY1231.4- Thermal Physics & Physics of the Earth	2	2	2	36	3
	Practical	2			36	
3	PY1331.4- Optics and electrodynamics	3	3	3	54	3
	Practical	2			36	
4	PY1431.4- Modern Physics, Electronics & crystallography	3	3	7	54	3
	PY1432- Practical	2	4		36	3

5. Physics for Home Science B.Sc Programme

Semester	Title of the course	No. of hours / week	No. of credits	Total credits	Total hours per sem.	U.E. duration
1	PY1131.5- Mechanics & properties of matter	2	2	2	36	3
	Practical	2			36	
2	PY1231.5- Thermal Physics	2	2	2	36	3
	Practical	2			36	
3	PY1331.5- Optics and electricity	3	3	3	54	3
	Practical	2			36	
4	PY1431.5- Atomic physics & Electronics	3	3	7	54	3
	PY1432- Practical	2	4		36	3

UNIVERSITY OF KERALA

Syllabus for
M. Sc. Programme in Branch III
CHEMISTRY

**(Revised Syllabi under Semester System
with effect from 2020 Admissions)**

PREAMBLE

'The syllabi of M.Sc programmes in Chemistry offered in the affiliated colleges of the University under Semester system have been revised and the revised syllabi are to be effective from 2020 admission. There are two independent PG programmes in Chemistry, namely **M.Sc. Programme in Branch III–Chemistry** and **M.Sc. Programme in Branch IV–Analytical Chemistry**. Both these PG programmes are equivalent in all respect for employment and higher studies. Each of these two PG programmes shall extend over a period of two academic years comprising of four semesters, each of 450 hours in 18 weeks duration. The syllabi and scheme of examinations of these two programmes are detailed below. The theory courses of the first three semesters and the practical courses of the first two semesters of the two programmes are common, and therefore, the examinations of these two PG programmes are to be conducted with common question papers for the first three semesters by a common Board of Examiners. These syllabi are effective from 2020 admission in affiliated colleges of the university.

M.Sc. PROGRAMME IN BRANCH III – CHEMISTRY
(Revised syllabus under semester system with effect from 2020 admission)

SYLLABUS AND SCHEME OF EXAMINATION

Course No and Title		Hours per week		Duration of ESA	Marks for CA	Marks for ESA	Total Marks
		L	P				
SEMESTER I*							
CH 211	Inorganic Chemistry I	5		3	25	75	100
CH 212	Organic Chemistry I	5		3	25	75	100
CH 213	Physical Chemistry I	5		3	25	75	100
CH 214	Inorganic Chemistry Practicals I		3	(To be continued in Semester II)			
CH 215	Organic Chemistry Practicals I		3	(To be continued in Semester II)			
CH 216	Physical Chemistry Practicals I		4	(To be continued in Semester II)			
				Total marks for Semester I			300
*Distribution of teaching hours/week: Theory–15 hours, Practical's –10 hours							
SEMESTER II*							
CH 221	Inorganic Chemistry II	5		3	25	75	100
CH 222	Organic Chemistry II	5		3	25	75	100
CH 223	Physical Chemistry II	5		3	25	75	100

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CH 214	Inorganic Chemistry Practicals II		3	6	25	75	100
CH 215	Organic Chemistry Practicals II		3	6	25	75	100
CH 216	Physical Chemistry Practicals II		4	6	25	75	100
	Total marks for Semester II						**600**

*Distribution of teaching hours/week: Theory–15 hours, Practical's –10 hours

SEMESTER III*

CH 231	Inorganic Chemistry III	5		3	25	75	100
CH 232	Organic Chemistry III	5		3	25	75	100
CH 233	Physical Chemistry III	5		3	25	75	100
CH 234	Inorganic Chemistry Practicals II		3	(To be continued in Semester IV)			
CH 235	Organic Chemistry Practicals II		3	(To be continued in Semester IV)			
CH 236	Physical Chemistry Practicals II		4	(To be continued in Semester IV)			
	Total marks for Semester III						**300**

*Distribution of teaching hours/week: Theory–15 hours, Practical's –10 hours

SEMESTER IV*

CH 241	Chemistry of Advanced Materials	5		3	25	75	100
CH 242 (a)	Inorganic Chemistry IV						
CH 242 (b)	Organic Chemistry IV	5		3	25	75	100
CH 242 (c)	Physical Chemistry IV						
CH 234	Inorganic Chemistry Practicals II		3	6	25	75	100
CH 235	Organic Chemistry Practicals II		3	6	25	75	100
CH 236	Physical Chemistry Practicals II		4	6	25	75	100
CH 243 (a)	Dissertation**					50	50
CH 243 (b)	Visit to R&D Centre					5	5
	Comprehensive viva-voce					45	45
	Total marks for Semester IV						**600**
	Grand Total (for semesters I – IV)						**1800**

*Distribution of teaching hours/week: Theory–10 hours, Practical's –10 hours , 5 hours for discussion on project

** 10 marks out of the 50 marks for dissertation will be for dissertation viva-voce. The remaining 40 marks is to be distributed as follows

Introduction to the work/ Statement of the Problem – 5, Review of Literature – 5 Materials and Methods – 5, Results and Discussion – 15, Language and style of presentation – 2, References – 3, Quality and Innovation – 5.
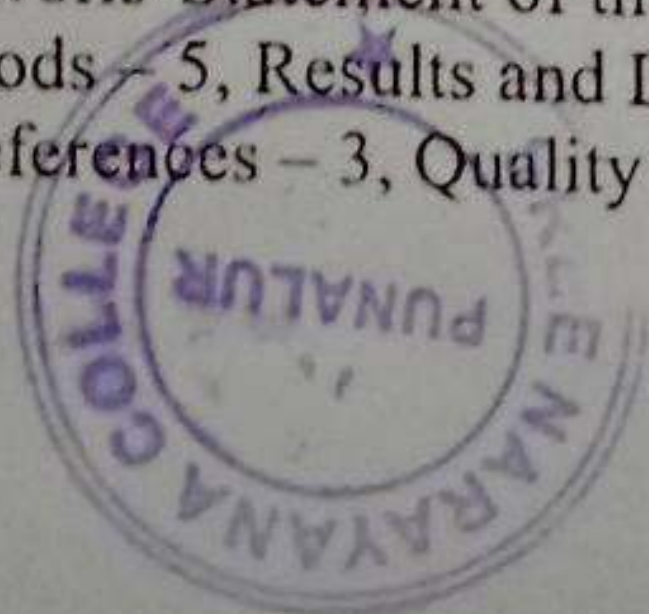
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SCHEME AND SYLLABUS

(OUTCOME BASED)

FIRST DEGREE PROGRAMME
IN CHEMISTRY

(BSc)

**UNDER CHOICE BASED
CREDIT AND SEMESTER SYSTEM**

Core Courses, Foundation Course II,
Open and Elective Courses

2020 ADMISSION ONWARDS

UNIVERSITY OF KERALA

SCHEME AND SYLLABUS

FIRST DEGREE PROGRAMME (BSc) IN CHEMISTRY
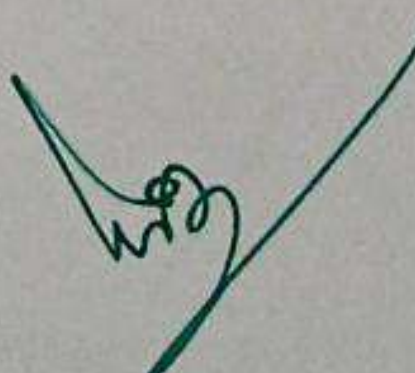
2020 ADMISSION ONWARDS

The BSc Degree programme in Chemistry covers three academic years of six semesters and aims to provide the students with an in-depth understanding and training in chemical sciences. The syllabus has been designed to stimulate the interest of the students in chemistry and prepared in order to equip the students with a potential to contribute to the academic and industrial requirements of the society. The new, updated syllabus is in accordance with the **OUTCOME BASED EDUCATION (OBE)** which aim at acquiring advanced knowledge in Chemistry as a discipline, in an interdisciplinary way. Based on the new guidelines of OBE, **Programme Outcome (PO)** *for the First degree Programme is defined by University of Kerala*. **Programme Specific Outcome** relating to BSc Chemistry **(PSO)** and **Course Outcome (CO)** relating to each course are also specified. [CO is of the Remember level(R) understand level(U) and apply level(A) based on Blooms Taxonomy]

Chemistry being an experimental science, due importance is given to the development of laboratory and instrumentation skills. The student is acquainted with the method of science, research methodology and the use of Computational softwares and Cheminformatics thus developing basic skills and knowledge of computing and data based decision making. At the same time, emphasis is given to critically analyse the impact of Chemistry in the present scenario of emerging human friendly and ecofriendly green approach in various facets of life and to become cautious against the random usage of dangerous chemicals.

It also provides a detailed knowledge of the terms, concepts, methods, principles and experimental techniques of chemistry, in order to get a comprehensive knowledge in leading a better life in harmony with nature.

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PROGRAMME SPECIFIC OUTCOME (PSO) FOR FDP IN CHEMISTRY

Sl.No.	Upon completion of BSc Degree programme in Chemistry, students	PSO No.
1	Develop scientific outlook scientific attitude and scientific temper	PSO1
2	Develop skill in experimenting , analyzing and interpreting data	PSO2
3	Develop research attitude and adopt scientific method of identifying, analyzing and solving research problems in an innovative way	PSO3
4	Apply physical and mathematical theories and principles in the context of chemical science	PSO4
5	Use chemistry related soft wares for drawing structure and plotting graphs	PSO5
6	Use instruments- potentiometer, conductometer, pH meter and colorimeter.	PSO6
7	Acquire skill in safe handling of chemicals including hazardous materials.	PSO7
8	Identify the ingredients in household chemicals, use them in a critical way	PSO8
9	Predict analytical procedures, compare experimental, theoretical and graphical methods of analysis	PSO9
10	Predict reaction mechanism in organic reactions	PSO10
11	Understand the terms, concepts, methods, principles and experimental techniques of physical, organic, inorganic and analytical chemistry	PSO11
12	Develop critical thinking and adopt healthier attitudes towards individual, community and culture through the course of Chemistry	PSO12
13	Become cautious about environmental aspects and impact of chemicals in soil, water and air and adopt ecofriendly approach in all frontiers of life	PSO13
14	Become responsible in consumption of natural resources and adopt measures for sustainable development.	PSO14
15	Visit Chemical factories and industries with scientific curiosity	PSO15
16	Develop writing skills and presentation skills using audio visual aids	PSO16
17	Compare and share knowledge in an interdisciplinary manner	PSO17
18	Inculcate spirit of originality, novelty, and necessity in scientific research	PSO18
19	Contribute to the academic and industrial requirements of the society	PSO19
20	Get motivated to higher studies - PG Degree in different branches of Chemistry, BEd Degree in Physical Science, and job opportunities in industrial and non industrial sectors	PSO20
21	Adopt safer life skills in a human friendly and ecofriendly way	PSO21

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COURSE STRUCTURE

The First Degree programme in Chemistry comprises of fourteen core courses, one project course, two choice based courses (an Open course in Vth semester and an Elective course in VIth semester), one core specific foundation course (IInd semester) in addition to one area-specific foundation course, the complementary courses and language courses. The open course offered in the fifth semester is open to students from other Majors. The details of the Course Structure are given in **Table I to VI**.

A Computer Skill Development Programme is included as part of the Core Course-CH1221 (Foundation Course II in Semester II), for computational skill development with no End Semester Evaluation (ESE).

FIRST DEGREE PROGRAMME
IN CHEMISTRY
Table I : Course structure, Scheme of Instruction and Evaluation

Course Code	Study component	Instructional hrs/Week		Credit	Duration of Uty. Exam	Evaluation marks		Total Credit
SEMESTER I								
		T	P			CE	ESE	18
EN1111	English I	5		4	3hrs	20	80	
1111	Additional Language I	4		3	3hrs	20	80	
EN1121	Foundation Course I	4		2	3hrs	20	80	
MM1131.2	Complementary Course I	4		3	3hrs	20	80	
PY1131.2	Complementary Course II	2		2	3hrs	20	80	
	Complementary Course Lab of PY1131.2		2	-	-	-	-	
CH1141	Core Course I	2		4	3hrs	20	80	
	Core Course Lab I of CH1141		2	-	-	-	-	
SEMESTER II								
EN1211	English II	4		3	3hrs	20	80	18
EN1212	English III	5		4	3hrs	20	80	
1211	Additional Language II	4		3	3hrs	20	80	
CH1221	Foundation Course II	2	2	3	3hrs	20	80	
MM1231.2	Complementary Course III	4		3	3hrs	20	80	
PY1231.2	Complementary Course IV	2		2	3hrs	20	80	
	Complementary Course Lab of PY1231.2		2	-	-	-	-	

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SEMESTER III

Code	Title					CE	ESE	Total
EN1311	English IV	5		4	3hrs	20	80	18
1311	Additional Language III	5		4	3hrs	20	80	
MM1331.2	Complementary Course V	5		4	3hrs	20	80	
PY1331.2	Complementary Course VI	3		3	3hrs	20	80	
	Complementary Course Lab of PY1331.2		2	-	-	-	-	
CH1341	Core Course II	3		3	3hrs	20	80	
	Core Course Lab I of CH1341		2	-	-	-	-	

SEMESTER IV

Code	Title					CE	ESE	Total
EN1411	English V	5		4	3hrs	20	80	24
1411	Additional Language IV	5		4	3hrs	20	80	
MM1431.2	Complementary Course VII	5		4	3hrs	20	80	
PY1431.2	Complementary Course VIII	3	2	3	3hrs	20	80	
	Complementary Course Lab of PY1131.2 PY1231.2 PY1331.2 & PY1331.2			4	3hrs	20	80	
CH1441	Core Course III	3		3	3hrs	20	80	
CH1442	Core Course IV- Lab I of CH1141		2	2	3hrs	20	80	

SEMESTER V

Code	Title					CE	ESE	Total
CH1541	Core Course V	3		4	3hrs	20	80	19
CH1542	Core Course VI	4		4	3hrs	20	80	
CH1543	Core Course VII	4		4	3hrs	20	80	
CH1544	Core Course VIII Lab II		5	3	6hrs	20	80	
CH 1545	Core CourseIX Lab III		4	2		20	80	
1551	Open Course	3		2	3hrs	20	80	
	Project		2	-	-	-	-	

SEMESTER VI

Code	Title					CE	ESE	Total
CH1641	Core Course X	3		4	3hrs	20	80	23
CH1642	Core Course XI	4		4	3hrs	20	80	
CH1643	Core Course XII	4		4	3hrs	20	80	
CH1644	Core Course XIII Lab IV			3	6hrs	20	80	
CH1645	Core Course XIV Lab V			2		20	80	
CH1661.1/ CH1661.2/ CH1661.3/ CH1661.4	Elective Course	3		2	3hrs	20	80	
CH1646	Project and Factory Visit		3	4	Viva voce	-	100	

CE -Continuous Evaluation, ESE- End Semester Evaluation
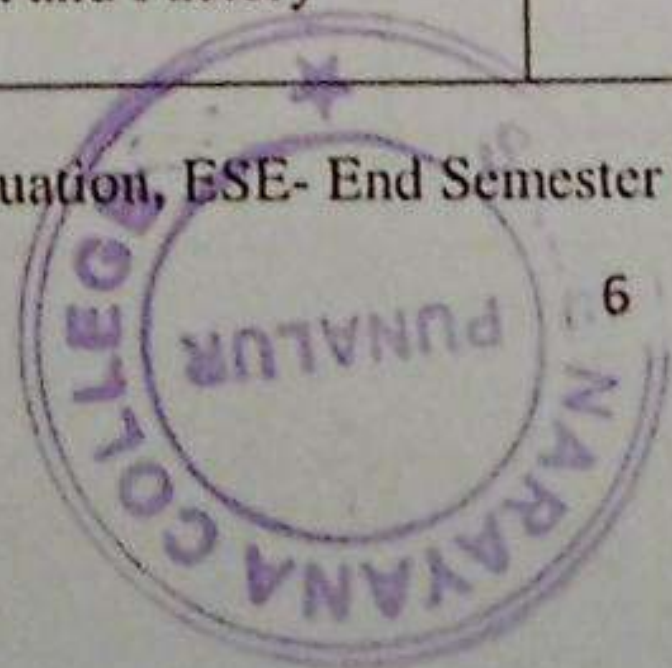
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PUNALUR

Table I A. Total number of Courses offered in BSc programme

Sl No.	Courses	No. of courses	Credits semester wise
1	Language Courses	9	7+10+8+8=33
2	Foundation Courses	2	2+3=5
3	Complementary Courses	9	5+5+7+11=28
4	Core Courses	14	4+3+5+17+17=46
5	Open Course	1	2
6	Elective Course	1	2
7	Project	1	4
	Total number of Courses	37	
	Total number of credits in all six semesters	18+18+18+24+19+23=120.	120

Table II. Scheme of instruction of Core Courses, Foundation Course II, Open Course and Elective Course

Course No. Course code	Course Title	Sem I Hrs L/P	C	Sem II Hrs L/P	C	Sem III Hrs L/P	C	Sem IV Hrs L/P	C	Sem V Hrs L/P	C	Sem VI Hrs L/P	C	Total Hrs	C
C.C.I CH1141	Inorganic Chemistry I	2/2	4											2	4
F.C.II CH1221	Chemistry-its Origin, Methodology and Impacts			2/2	3									4	3
C.C.II CH1341	Inorganic Chemistry II					3/--	3								3
C.C.III CH1441	Organic Chemistry I														3
C.C.IV CH1442	Lab I of CH1141,CH1341&CH1441 (Inorganic Qualitative Analysis)					--/2		--/2	2					6	2
C.C.V CH1541	Physical Chemistry I									3/--	4			3	4
C.C.VI CH1542	Inorganic Chemistry III									4/--	4			4	4
C.C.VII CH1543	Organic Chemistry II									4/--	4			4	4
C.C.VIII CH1544	Lab II of CH1541,CH1542&CH1543 (Inorganic Volumetric Analysis)									--/5	3			5	3
C.C.IX CH1545	Lab III of CH1541,CH1542&CH1543 (Physical Chemistry Experiments)									--/4	2			4	2
O.C CH1551	Open to other majors									3/--	2			3	2
C.C.X CH1641	Physical Chemistry II											3/--	4	3	4

| Code	Title																			
C.CXI CH1642	Organic Chemistry III													4/--	4	4		4
C.CXII CH1643	Physical Chemistry III													4/--	4	4		4
C.C.XIII CH1644	Lab Course IV (Organic Chemistry Experiments)													--/5	3	5		3
C.C.XIV CH1645	Lab Course V (Gravimetric Experiments)													--/3	2	3		2
E.C CH1661	Any one of the options													3/--	2	3		2
C.C.XV CH1646	Project												--/2	--/3	4	5		4
	Factory visit																	
Credits/Semester		4	3	3	5		19		23									57

C.C-Core Course, F.C-Foundation Course, O.C-Open Course, E.C-Elective Course
L-Theory, P-Practical, C-Credit

B.Sc. Degree Programme in Chemistry
Table III. Open Course offered to students of other disciplines
Semester V

Semester	No. of Hours / Week		Credits	Course Code	Title of the Course	Instructional Hours
	L	P				
V	3	-	2	CH1551.1	Chemistry and its Application	54
				CH 1551.2	Fundamentals of Chemistry & Its Application to Everyday Life	
				CH 1551.3	Environmental Chemistry	

B.Sc. Degree Programme in Chemistry
Table IV. Elective Course offered in Semester VI

Semester	No. of Hours / Week		Credits	Course Code	Title of the Course	Instructional Hours
	L	P				
VI	3	-	2	CH1661.1	Supramolecular, Nano Particles and Green Chemistry	54
				CH 1661.2	Computational, Combinatorial and Physical Organic Chemistry	
				CH 1661.3	Polymer chemistry	
				CH 1661.4	Biochemistry	

8
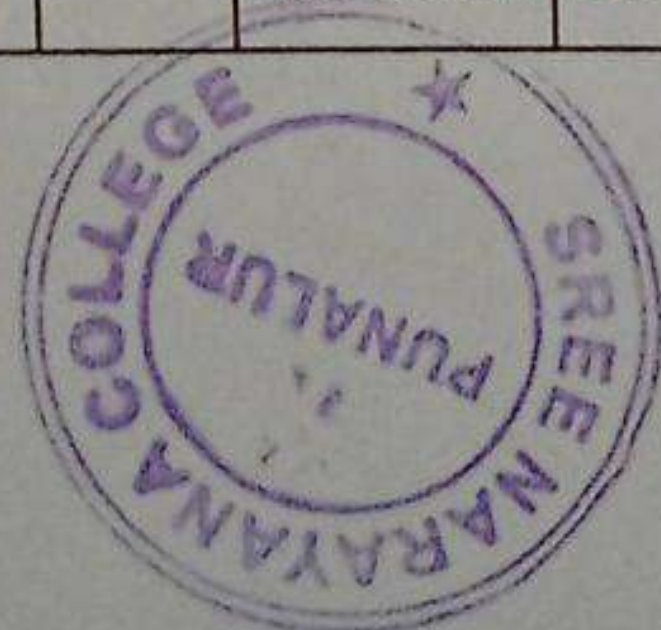
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PUNALUR

Table V. Complementary Courses offered to BSc Chemistry (One Semester 18 weeks)

(Complementary programme - Mathematics, Total Credits – 14)

Semester	Hours/week	Number of Credits	Course code	Instructional Hours
I	4	3	MM1131.2	$4 \times 18 = 72$
II	4	3	MM1231.2	$4 \times 18 = 72$
III	5	4	MM1331.2	$5 \times 18 = 90$
IV	5	4	MM1431.2	$5 \times 18 = 90$

Table VI. Complementary Courses offered to BSc Chemistry (One Semester 18 weeks)

Complementary Programme- Physics , Total Credits – 14

Semester	Hours/Week		Number of Credits	Course code	Instructional Hours
	L	P			
I	2	2	2	PY1131.2	$2 \times 18 = 36$ $2 \times 18 = 36$
II	2	2	2	PY1231.2	$2 \times 18 = 36$ $2 \times 18 = 36$
III	3	2	3	PY1331.2	$3 \times 18 = 54$ $2 \times 18 = 36$
IV	3	2	3 4	PY1431.2 PY1432.2	$3 \times 18 = 54$ $2 \times 18 = 36$

University of Kerala

(Abstract)

Scheme and Syllabus for First Degree Programme in Zoology under CBCS system - with effect from 2019 admissions -Approved- Orders issued.

ACADEMIC 'AV' SECTION

Thiruvananthapuram, Dated:12-06-2019

No.Ac.AV/1/Zoology/2019

Read:- 1. UO No.Ac.AV/1/12846(6)/2015 dated 30.06.2015

2.Item No IV(X)I of the minutes of the Annual Meeting of the Faculty of Science held on 05- 03-2019.

3.Item No.II.5(v) of the minutes of the meeting of the Academic Council held on 13-03-2019.

ORDER

The Scheme and Syllabus of First Degree Programme in Zoology under CBCS system had been revised vide paper read as (1) above.

The Annual Meeting of the Board of Studies in Zoology(Pass) held on 18/12/2018 has recommended the revised Scheme and Syllabus of First Degree Programme in Zoology and Complementary courses in Zoology under CBCS system,to be implemented with effect from 2019 admissions.

The Academic Council vide paper read as (3) above resolved to approve the Scheme and Syllabus of First Degree Programme in Zoology and Complementary Courses in Zoology under CBCS system, to be implemented with effect from 2019 admissions as recommended by the Board of Studies in Zoology(Pass) and as endorsed by the Faculty of Science.

The Scheme and Syllabus is available in the University website.

Orders are issued accordingly.

Sd/-

SOBHANA KUMARI.K

Deputy Registrar(Acad-II)

For Registrar

Copy to:-
1. The Principals of colleges offering First Degree Programmes
2. The Dean, Faculty of Science.
3. The Chairman, Board of Studies in Zoology(Pass)
4. The Controller of Examinations
5. The Director, Computer Centre/ IT cell
6. JR (CBCS)
7. DR(CBCS)
8. AR(CBCS)/AR(EB)AR(ES)
9. ES sections/ EB sections/CBCS sections
10. PRO/Enquiry
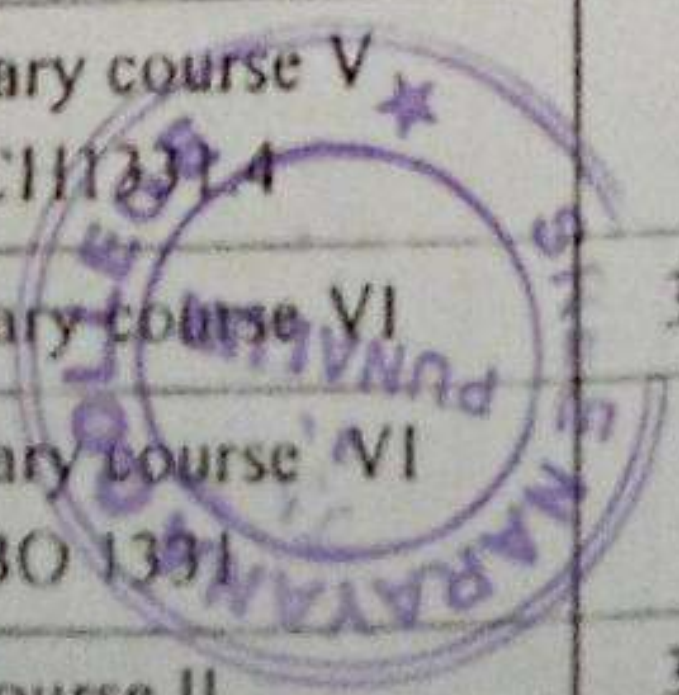11. Stock File/File Copy.

Forwarded/By Order

Section Officer

Core Course Practical

FIRST DEGREE PROGRAMME IN ZOOLOGY
Scheme of Instruction and Evaluation

Semester	Course Code	Study Components	Instructional Hrs/week T	Instructional Hrs/week P	Credit	Duration of Univ Exam	Evaluation CE	Evaluation ESE	Total Credit
I	EN1111	English	5		4	3 Hrs	20%	80%	16
	1111	Additional language I	4		3	3 Hrs	20%	80%	
	EN 1121	Foundation course I	4		2	3 Hrs	20%	80%	
	CH1131.4	Complementary course I	2		2	3 Hrs	20%	80%	
		Complementary course I Practical of CH1131.4		2					
	BO1131	Complementary course II	2		2	3 Hrs	20%	80%	
		Complementary course II Practical of BO1131		2					
	ZO 1141	Core course I	3		3	3 Hrs	20%	80%	
		Core Course Practical of ZO1141		1					
II	EN1211	English II	4		3	3 Hrs	20%	80%	17
	EN1212	English III	5		4	3 Hrs	20%	80%	
	1211	Additional Language II	4		3	3 Hrs	20%	80%	
	CH1231.4	Complementary course III	2		2	3 Hrs	20%	80%	
		Complementary course III Practical of CH1231.4		2					
	BO1231	Complementary course IV	2		2	3 Hrs	20%	80%	
		Complementary course II Practical of BO1231		2					
	ZO1241	Core course II	3		3	3 Hrs	20%	80%	
		Core Course Practical of ZO1241		1					
	EN1311	English IV	5		4	3 Hrs	20%	80%	17
	EN1312	Additional Language III	5		4	3 Hrs	20%	80%	
	CH1331	Complementary course V	3		3				
III	CH1331.4	Complementary course V Practical of CH1331.4		2					
	BO 1331	Complementary course VI	3		3	3 Hrs	20%	80%	
	BO 1332	Complementary course VI Practical of BO 1331		2					
	ZO 1341	Foundation course II	3		3	3 Hrs	20%	80%	

Semester	Course Code	Study Components	Instructional Hrs/week T	Instructional Hrs/week P	Credit	Duration of Univ.Exam	CE	ESE	To Cre
	ZO1341	Core course Practical of ZO1341		2	4	3 Hrs	20%	80%	29
IV	EN1411	English V	5		4	3 Hrs	20%	80%	
	EN1411	Additional Language II	5		4	3 Hrs	20%	80%	
	CH1431.4	Complementary course VII	3		3	3 Hrs	20%	80%	
	CH1432.4	Complementary course Practical of CH1131.4, CH1231.4 CH1331.4, CH1431.4		2	4	3 Hrs	20%	80%	
	BO1431	Complementary course VIII	3		3	3 Hrs	20%	80%	
	BO1432	Complementary course Practical of BO1131, BO1231 BO1331, BO1431		2	4	3 Hrs	20%	80%	
	ZO1441	Core course III	3		3	3 Hrs	20%	80%	
	ZO1442	Core course IV Practical of ZO1141, ZO1241, ZO1341		2	4	3 Hrs	20%	80%	
V	ZO1541	Core Course V	5		4	3 Hrs	20%	80%	14
	ZO1542	Core Course VI	4		4	3 Hrs	20%	80%	
	ZO1543	Core Course VII	4		4	3 Hrs	20%	80%	
	ZO1551	Open Course I	3		2	3 Hrs	20%	80%	
		Core Course Practical of ZO1441		6					
		Project		2		3 Hrs	20%	80%	
		Field study/Study tour		1					
VI	ZO1641	Core Course VIII	5		4	3 Hrs	20%	80%	27
	ZO1642	Core Course IX	4		4	3 Hrs	20%	80%	
	ZO1643	Core Course X	4		3	3 Hrs	20%	80%	
	ZO1651	Elective Subject	3		2	3 Hrs	20%	80%	
	ZO1644	Core Course XI Practical II of ZO1541 ZO1541, ZO1543, ZO1341		2	4	3 Hrs	20%	80%	
	ZO1645	Core Course XII Practical III of ZO1641 ZO1341 ZO1541		2	3	3 Hrs	20%	80%	
	ZO1646	Core Course XIII Practical IV of ZO1642, 1643, 1441		2	3				
	ZO1647	Project Field Study & Study tour		3	4	3 Hrs	20%		

FIRST DEGREE PROGRAMME IN ZOOLOGY
SCHEME OF INSTRUCTION OF CORE COURSES, FOUNDATION COURSE II & OPEN COURSES

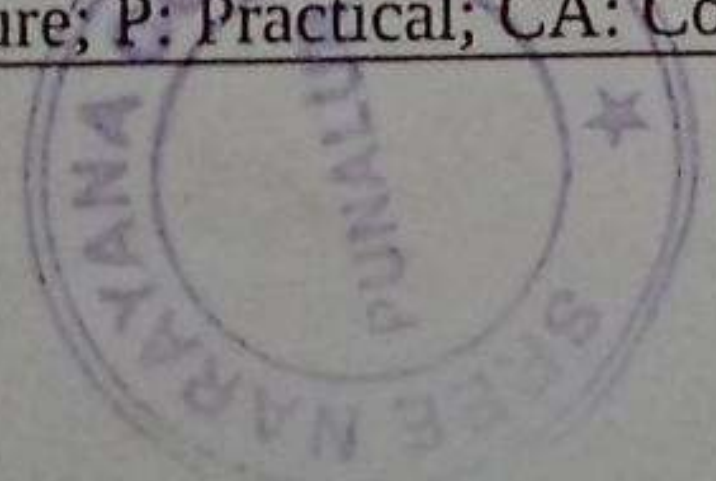| Course Code	Course Title	Sem I Contact Hour T	Sem I Contact Hour P	Sem I Credit	Sem II Contact Hour T	Sem II Contact Hour P	Sem II Credit	Sem III Contact Hour T	Sem III Contact Hour P	Sem III Credit	Sem IV Contact Hour T	Sem IV Contact Hour P	Sem IV Credit	Sem V Contact Hour T	Sem V Contact Hour P	Sem V Credit	Sem VI Contact Hour T	Sem VI Contact Hour P	Sem VI Credit	Total Contact Hour	Total Credit
ZO 1141	Animal Diversity I	3		3																3	3
ZO 1241	Animal Diversity II				3		3													3	3
ZO 1341	Foundation Course II							3		3										3	3
ZO 1441	Ecology, Habitat Destruction & Disaster Management										3		3							3	3
ZO 1442	Practical I of ZO 1141,1241,1341		1			1			2			2	4							6	4
ZO 1541	Cell and Molecular Biology													4		4				4	4
ZO 1542	Genetics and Biotechnology													4		4				4	4
ZO 1543	Immunology and Microbiology													5		4				5	4
ZO 1551	Open Course													3		2				3	2
ZO 1641	Physiology and Biochemistry																5		4	5	4
ZO 1642	Developmental Biology and Experimental Embryology																4		4	4	4
ZO 1643	Ethology evolution and Zoogeography																4		3	4	3
ZO 1651	Elective Subject																3		2	3	2
ZO 1644	Practical – II Cell Biology, Molecularbiology Immunology & Microbiology													2		2	2		2	4	4
ZO 1645	Practical-III Physiology and Biological Chemistry and Bioinformatics													2			2		3	4	4
ZO 1646	Practical-IV Developmental Biology Ecology Ethology Evolution and Zoogeography													2			2		3	4	3
ZO 1647.1	Zoology Project																3		4	6	4
ZO 1647.2	Held Study & Study Tour																		1		

KERALA UNIVERSITY
SYLLABUS FOR M.Sc. MATHEMATICS
SEMESTER PATTERN IN AFFILIATEDCOLLEGES
2017 ADMISSIONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

Semester	Paper Code	Title of the paper	Distribution hrs per semester	Instructional hrs./ week		Dur ESA hrs.	Maximum Marks		
				L	P		CA	ESA	Total
I	MM 211	Linear Algebra	108	6	-	3 hrs	25	75	100
	MM 212	Real Analysis - I	108	6	-	"	25	75	100
	MM 213	Diff. Equation	108	6	-	"	25	75	100
	MM 214	Topology - I	126	7	-	"	25	75	100
II	MM 221	Abstract Algebra	108	6	-	3 hrs	25	75	100
	MM 222	Real Analysis-II	108	6	-	"	25	75	100
	MM 223	Topology-II	126	7	-	"	25	75	100
	MM 224	Scientific Programming with Python	108	6		"	25	75	100
III	MM 231	Complex Analysis-I	126	7	-	3 hrs	25	75	100
	MM 232	Functional Analysis-I	108	6	-	"	25	75	100
	MM 233	Elective-I	108	6	-	"	25	75	100
	MM 234	Elective-II	108	6	-	"	25	75	100
IV	MM 241	Complex Analysis-II	126	7	-	3 hrs	25	75	100
	MM 242	Functional Analysis-II	108	6	-	"	25	75	100
	MM 243	Elective-III	108	6	-	"	25	75	100
	MM 244	Elective-IV	108	6	-	"	25	75	100
	MM 245	Dissertation/ Project						80+20	100
		Comprehensive Viva							100
		GRAND TOTAL	1800						1800

L: Lecture; P: Practical; CA: Continuous Assessment; ESA: End Semester Examination

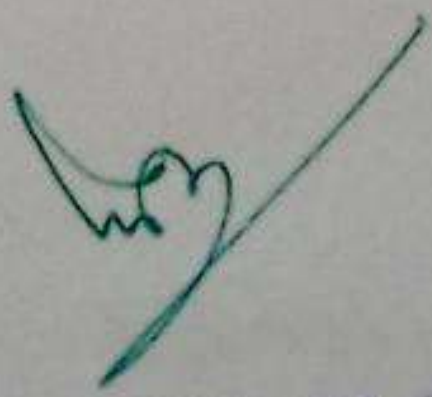PRINCIPAL-IN-CHARGE
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KERALA UNIVERSITY SYLLABUS FOR M.Sc. MATHEMATICS SEMESTER PATTERN IN AFFILIATED COLLEGES 2020 ADMISSION ONWARDS

M.Sc. MATHEMATICS COURSE STRUCTURE & MARK DISTRIBUTION

Semester		Title of the paper	Distribution hrs per semester	Instructional hrs./week L	P	Dur ESA hrs.	Maximum Marks CA	ESA	Total
I	MM 211	Linear Algebra	108	6	-	3 hrs	25	75	100
	MM 212	Real Analysis - I	108	6	-	"	25	75	100
	MM 213	Ordinary Differential Equations	108	6	-	"	25	75	100
	MM 214	Topology - I	126	7	-	"	25	75	100
II	MM 221	Abstract Algebra	108	6	-	3 hrs	25	75	100
	MM 222	Real Analysis-II	108	6	-	"	25	75	100
	MM 223	Topology-II	126	7	-	"	25	75	100
	MM 224	Partial differential Equations and Calculus of Variation	108	6		"	25	75	100
III	MM 231	Complex Analysis	126	7	-	3 hrs	25	75	100
	MM 232	Functional Analysis-I	108	6	-	"	25	75	100
	MM 233	Elective-I	108	6	-	"	25	75	100
	MM 234	Elective-II	108	6	-	"	25	75	100
IV	MM 241	Analytic Number Theory	126	7	-	3 hrs	25	75	100
	MM 242	Functional Analysis-II	108	6	-	"	25	75	100
	MM 243	Elective-III	108	6	-	"	25	75	100
	MM 244	Elective-IV	108	6	-	"	25	75	100
	MM 245	Dissertation/ Project						80+20	100
		Comprehensive Viva							100
		GRAND TOTAL	**1800**						**1800**

L: Lecture; P: Practical; CA: Continuous Assessment; ESA: End Semester Examination

PRINCIPAL-IN-CHARGE
SREE NARAYANA COLLEGE
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University of Kerala
(Abstract)

Scheme and Syllabus for First Degree Programme in Mathematics under CBCS system- Corrections in the syllabus of Core/Complementary Courses in Mathematics -Approved-Orders issued.

ACADEMIC 'AV' SECTION

No.Ac.AV/1/Mathematics/2019   Thiruvananthapuram, Dated:03-06-2019

Read:- 1. UO.No Ac.AV/1/Mathematics/2014 dated 12-12-2014
  2.UO.No.Ac.AV/1/Mathematics/2018 dated 20.06.2018
  3. Item No.IV(N)III of the minutes of the Annual Meeting of the Faculty of Science held on 05-03-2019.
  4. Item No.(II).5(v) of the minutes of the meeting of the Academic Council held on 13-03-019.

ORDER

The revised Scheme and Syllabus of First Degree Programme in Mathematics under CBCS system had been revised w.ef 2014 and 2018 admissions vide papers read as (1) and (2) above.

The Annual meeting of the Board of Studies in Mathematics (Pass) held on 17/12/2018 has recommended the following:

1. The teachers are directed to teach the complementary course- Mathematics IV Abstract Algebra and Linear Transformations (2014 admission onwards)using the textbook ' A First Course in Abstract Algebra,Pearson Education Inc. Seventh Edition (2006)' , written by John B Fraleigh.

2.The following minor corrections are to be included in the syllabus of 2018 admissions onwards.

MM 1441 – Elementary Number Theory and Calculus II (Core paper of fourth semester B. Sc Mathematics Main) : -

Module – 1 Chapter 2 and 3 should be replaced by : Chapter 4 (Section 4.1,4.2,4.3) ; Chapter 5 (Sec.); Chapter 6 (Sec. 6.1) ; Chapter 7 (Sec.7.1,7.2,7.4).

MM 1431 – Basic Statistics and Differential Equations (Fourth Semester Geology) : -
Module 1 – Topics from Chapter 21 and 22 of text [1] should be replaced by : Topics from Chapter 21 & 22 of Reference [1].

The Faculty of Science endorsed the same vide paper read as (3) above.
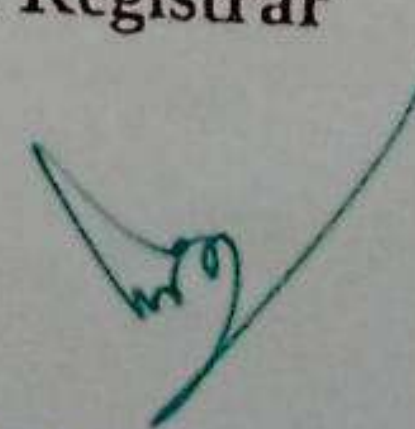
The Academic Council vide paper read as (4) above approved the recommendations of the Board of Studies in Mathematics(Pass) as endorsed by the Faculty of Science.

Orders are issued accordingly. .

Sd/-
SOBHANA KUMARI.K
Deputy Registrar(Acad-II)
For Registrar

to:-
The Principals of colleges offering First Degree Programmes
The Dean, Faculty of Science.
The Chairman, Board of Studies in Mathematics(Pass)
The Controller of Examinations

PRINCIPAL-IN-CHARGE
SREE NARAYANA COLLEGE
PUNALUR

STRUCTURE OF CORE COURSES

Sem	Course Code	Course title	Instr hrs. per week	Credit
I	MM 1141	Methods of Mathematics	4	4
II	MM 1221	Foundations of Mathematics	4	3
III	MM 1341	Elementary Number Theory and Calculus – I	5	4
IV	MM 1441	Elementary Number Theory and Calculus – II	5	4
V	MM 1541	Real Analysis – I	5	4
	MM 1542	Complex Analysis – I	4	3
	MM 1543	Abstract Algebra – Group Theory	5	4
	MM 1544	Differential Equations	3	3
	MM 1545	Mathematics Software – LaTeX & SageMath (Practical Examination Only)	4	3
	MM 1551	Open Course	3	2
		Project preparation - From selecting the topic to presenting the final report	1	
VI	MM 1641	Real Analysis – II	5	4
	MM 1642	Complex Analysis – II	4	3
	MM 1643	Abstract Algebra – Ring Theory	4	3
	MM 1644	Linear Algebra	5	4
	MM 1645	Integral Transforms	4	3
	MM 1651	Elective Course	3	2
	MM 1646	Project		4

STRUCTURE OF OPEN COURSES

Sem	Course Code	Course title	Instr.hrs. per week	Credit
V	MM 1551.1	Operations Research	3	2
V	MM 1551.2	Business Mathematics	3	2
V	MM 1551.3	Basic Mathematics	3	2

2

STRUCTURE OF ELECTIVE COURSES

| Sem	Course Code	Course title	Instr.hrs. per week	Credit
VI	MM 1661.1	Graph Theory	3	2
VI	MM 1661.2	Linear Programming with SageMath	3	2
VI	MM 1661.3	Numerical Analysis with SageMath	3	2
VI	MM 1661.4	Fuzzy Mathematics	3	2

STRUCTURE OF THE COMPLEMENTARY COURSES

Complementary Course in Mathematics for First Degree Programme in Physics

Course Code	Sem.	Title of Course	Contact hrs/week	No. of Credits
MM 1131.1	1	Calculus with applications in Physics – I	4	3
MM 1231.1	2	Calculus with applications in Physics – II	4	3
MM 1331.1	3	Calculus and Linear Algebra	5	4
MM 1431.1	4	Complex Analysis, Special Functions and Probability Theory	5	4

Complementary Course in Mathematics for First Degree Programme in Chemistry

Course Code	Sem.	Title of Course	Contact hrs/week	No. of Credits
MM 1131.2	1	Calculus with applications in Chemistry – I	4	3
MM 1231.2	2	Calculus with applications in Chemistry – II	4	3
MM 1331.2	3	Linear Algebra, Probablity Theory & Numerical Methods	5	4
MM 1431.2	4	Differential Equations, Vector Calculus and Abstsract Algebra	5	4

3
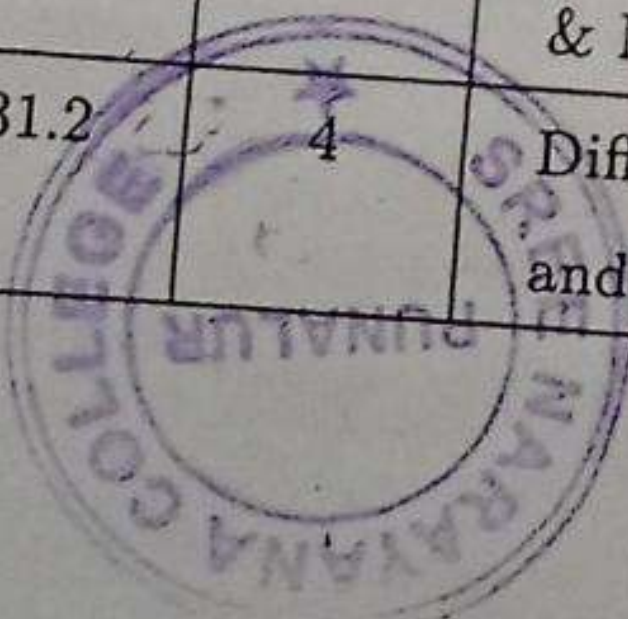
FIRST DEGREE PROGRAMME UNDER CBCSS
SCHEME AND SYLLABI OF COMPLEMENTARY STATISTICS
FOR B. Sc. MATHEMATICS CORE w.e.f. 2018 Admission.

f the syllabus is to equip the students with the concepts, principles and methods of Statistics. It is t students be acquainted with the applications of statistical methods to analyze data and draw wherever the statistical decisions are meaningful. Emphasis is given to understand the basic nd data analysis tools. There are practical sessions in each semester. Numerical problems solving ntific calculators is also included in the End Semester Examination (ESE) of Courses in the I, II, III & IV. There is one course in practical using Excel in Semester IV. ESE of courses in I, II, III, & IV will be of 3 hours duration and have questions from all modules in the semester.

 semesters I & II will be of 2 credits each and in semesters III & IV, 3 credits each. The actical course in semester IV will be of 2 hours duration with credit 4.

atory to submit a fair record of practical done (module V of courses in semesters I, II, III and IV) out of the output of the same duly certified at the time of ESE of practical course. ESE of the ourse will be held under the supervision of external examiners duly appointed by the University.

Title of the course	Hours/ week		No. of credits	Total Hrs/ week	ESE Duration	Weightage	
	L	P				CE	ESE
ST 1131.1: Descriptive Statistics	2	2	2	72	3 hrs	20	80
ST 1231.1: Probability and Random Variables	2	2	2	72	3 hrs	20	80
ST 1331.1: Statistical Distributions	3	2	3	90	3 hrs	20	80
ST 1431.1: Statistical Inference			3		3 hrs	20	80
ST 1432.1: Practical using EXCEL	3	2	4	90	2 hrs	20	80

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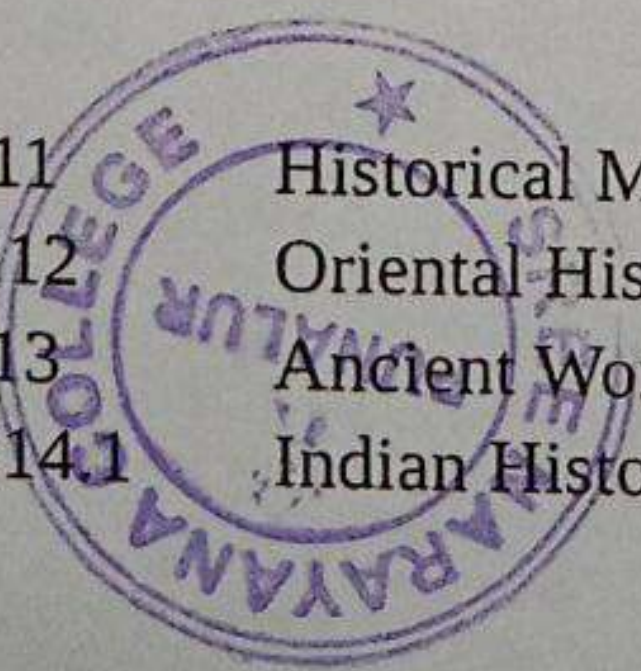PUNALUR

MA HISTORY (WORLD HISTORY AND HISTORIOGRAPHY)

SYLLABUS FOR M A WORLD HISTORY AND HISTORIOGRAPHY
SEMESTER PATTERN IN AFFILIATED COLLEGES
2020 ADMISSION ONWARDS
WORLD HISTORY AND HISTORIOGRAPHY
COURSE STRUCTURE & MARK DISTRIBUTION

Semester	Paper Code	Title of the Paper	Distribution hrs/Semester	Instructional hrs/week L	P	Dur ESA Hrs	Maximum marks CA	ESA	Total
I	WHH - C- 211	Historical Method – I	120	7		75	25	75	100
	WHH - C - 212	Oriental Historiography	110	6		75	25	75	100
	WHH - C - 213	Ancient World History	110	6		75	25	75	100
	WHH - E - 214.1	Indian History I (Elective)	110	6		75	25	75	100
	WHH - E - 214.2	Ancient Greece And Rome (Elective)	110	6		75	25	75	100
	WHH - E - 214.3	Early Afro-American Civilizations(Elective)	110	6		75	25	75	100
II	WHH - C- 221	Historical Method – II	120	7		75	25	75	100
	WHH - C- 222	Indian Historiography	110	6		75	25	75	100
	WHH - C- 223	History of Medieval World	110	6		75	25	75	100
	WHH - E - 224.1	Indian History II (Elective)	110	6		75	25	75	100
	WHH - E - 224.2	History of Medieval Europe (Elective)	110	6		75	25	75	100
	WHH - E - 224.3	Medieval History of West Asia and China (Elective)	110	6		75	25	75	100
III	WHH - C- 231	Issues in Historiography	120	7		75	25	75	100
	WHH - C- 232	Indian History – III	110	6		75	25	75	100
	WHH - C- 233	History of Modern World	110	6		75	25	75	100
	WHH -E - 234.1	History of Pre-Modern Kerala (Electives)	110	6		75	25	75	100
	WHH - E - 234.2	Colonialism and Nationalism in Africa (Elective)	110	6		75	25	75	100
	WHH - E - 234.3	Environmental History with Special Reference to India (Elective)	110	6		75	25	75	100
IV	WHH - C- 241	Recent Trends in Historiography	120	7		75	25	75	100
	WHH - C- 242	Indian History – IV	110	6		75	25	75	100
	WHH - C- 243	Contemporary World	110	6		75	25	75	100
	WHH - E - 244.1	History of Modern Kerala (Elective)	110	6		75	25	75	100
	WHH - E - 244.2	Twentieth Century Revolutions (Elective)	110	6		75	25	75	100
	WHH - E - 244.3	Gender History with Special Reference to India (Elective)	110	6		75	25	75	100
	WHH - D - 245	Dissertation							100
	WHH - V - 246	Viva-voce							100

C : Core Course; E : Elective; D : Dissertation; V: Viva-voce; L: Lecture; P: Practical; CA:Continuous Assesment ; ESA: End Semester Examination

SEMESTER I

WHH - C- 211   Historical Method – I
WHH - C - 212   Oriental Historiography
WHH - C - 213   Ancient World History
WHH - E - 214.1   Indian History I (Elective)

| WHH - E - 214.2 | Ancient Greece And Rome (Elective) |
| WHH - E - 214.3 | Early Afro-American Civilizations (Elective) |

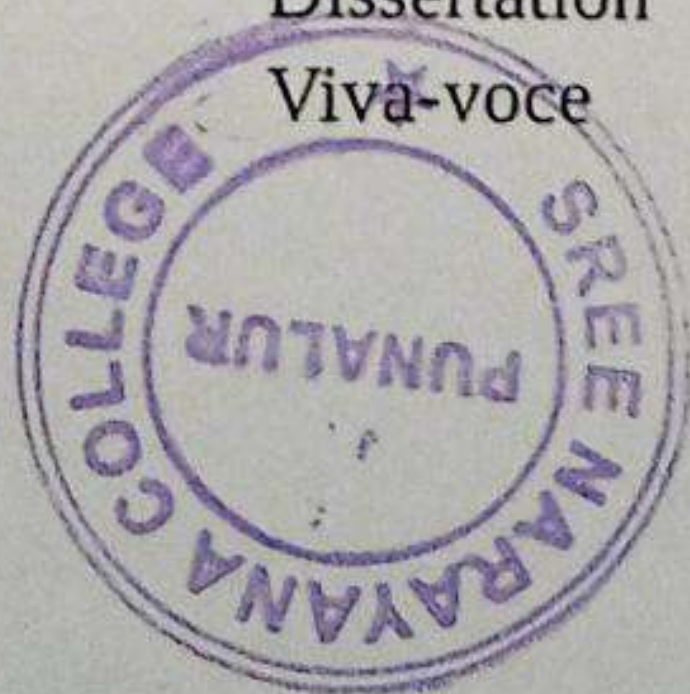## SEMESTER II

WHH - C- 221	Historical Method – II
WHH - C- 222	Indian Historiography
WHH - C- 223	History of Medieval World
WHH - E - 224.1	Indian History II (Electives)
WHH - E - 224.2	History of Medieval Europe (Elective)
WHH - E - 224.3	Medieval History of West Asia and China (Elective)

SEMESTER III

WHH - C- 231	Issues in Historiography
WHH - C- 232	Indian History – III
WHH - C- 233	History of Modern World
WHH -E - 234.1	History of Pre-Modern Kerala (Electives)
WHH - E - 234.2	Colonialism and Nationalism in Africa (Elective)
WHH - E - 234.3	Environmental History with Special Reference to India (Elective)

SEMESTER IV

WHH - C- 241	Recent Trends in Historiography
WHH - C- 242	Indian History – IV
WHH - C- 243	Contemporary World
WHH - E - 244.1	History of Modern Kerala (Electives)
WHH - E - 244.2	Twentieth Century Revolutions (Elective)
WHH - E - 244.3	Gender History with Special Reference to India (Elective)
WHH - D - 245	Dissertation
WHH - V - 246	Viva-voce

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