

ACADEMIC BULLETIN
FOR POST GRADUATE
CREDIT BASED COURSES
2016-2017



COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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PREFACE

The present Academic Bulletin aims at giving a brief overview of the course structure as well as regulations for the various post graduate programmes offered in the University. We feel that this will enable the students to choose their electives according to their interest in the topic. The details of the faculty in each Department along with their specialisations are also given in the text. As was done earlier, the information is organised faculty wise and Departments within each faculty. Clarifications regarding any detail which is not included in the bulletin can be obtained from the concerned Head of the Department. Further it may be noted that the rules and regulations are subject to changes, depending on subsequent decisions taken by the academic bodies.

The Academic Bulletin Committee is thankful to all the Directors of Schools/ Heads of Departments and University authorities for extending all sort of Co-operation in bringing out this bulletin. We would also like to place on record our appreciation to the staff of Academic 'C' section who had rendered administrative help to bring out this bulletin.

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REGULATION FOR POST GRADUATE PROGRAMMES IN THE DEPARTMENTS/ SCHOOLS OF THE COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

1 SCOPE

- 1.1 These Regulations shall apply to all the post graduate programmes conducted by the Departments/Schools of the Cochin University of Science and Technology excluding Ph.D, M.Phil and PG Diploma and Certificate courses.
- 1.2 The provisions herein supersede all other Regulations unless otherwise provided

2 DEFINITIONS

- 2.1 Academic Committee means the committee constituted by the Vice-Chancellor under this regulation to monitor the running of the programme.
- 2.2 Core course means a course that the student admitted to a particular programme must successfully complete to receive the Degree and which cannot be substituted by any other course.
- 2.3 Elective course means a course, which can be substituted by equivalent courses from the same or other Departments/Schools.
- 2.4 Audited course will not accrue any credit.
- 2.5 Department/School means Departments/Schools instituted in the University as per Statutes and Act.
- 2.6 Levels of courses in these Regulations will generally means:
First Level : Undergraduate programmes
Second Level : All post graduate programme
(Master's Degree) except M.Tech.
Third Level : M.Tech courses

3 ELIGIBILITY FOR ADMISSION

As per the Regulations prescribed by the University from time to time.

4 ADMISSION

As per the Regulations prescribed by the University from time to time.

5 COURSE REGISTRATION

- 5.1 Every Department/School shall have Faculty Members as Student Advisors. Each student at the time of seeking admission will be assigned to an Advisor by the Department Council. He/She will advise the student about the academic programme and counsel on, the choice of courses depending on the student's academic background and objective. The student will then

register for the courses he plans to take for the semester before the classes begin.

The Department offering any course shall prescribe the maximum number of students that can be admitted taking into consideration the facilities available.

In any Department preference shall be given to those students for whom the course is a core-course if the demand for registration is beyond the maximum prescribed.

The student has to complete the prescribed prerequisites for the course before registration. The student can drop out if he feels that he has registered for more courses than he can handle within 20 days after the commencement of classes.

- 5.2 The University shall make available to all students a Bulletin listing all the courses offered in every semester specifying the credits, prerequisites, list of topics the course intends to cover, the instructor who is giving the courses, the time and place of the classes for the courses and examination schedule. Each course shall have a code consisting of three characters denoting the Department and four digits of which first digit indicating the level of the course, second indicating the Semester and third and fourth digits the serial number of the course. However in such Departments having more than 1 Masters programme of same level, the first 2 characters denotes Department and the third, the course of study.

6 COURSE STRUCTURE

- 6.1 Core courses should generally be offered by the Department/ School concerned. Normally no course shall have more than four credits except in cases where only project/dissertation including seminars are involved in which cases the minimum credit shall be sixteen.
- 6.2 Total number of credit of credits for the core courses shall not exceed 60 for MA/M.Sc,80 for MCA/MBA (RT) & (PT), MIB/40 for M.Tech and shall not be less than 48 for MA/M.Sc/72 for MCA/MBA (FT & PT)/MIB and 36 for M.Tech.
- 6.3 The Department Council shall make recommendations on the core and elective courses including the detailed syllabus for each programme offered by the Department to the University and approved by the concerned Board of Studies, Faculty and Academic Council. The Department Council shall have the freedom to design and introduce new electives and or audited courses, to modify/redesign existing electives and to replace any existing electives with new or modified/redesigned electives to facilitate better exposure and training for the students. Prior approval from the Board of Studies and Academic Council is not required for such modifications in the electives, but shall be done only with the approval of the Academic Committee. Such changes shall be brought to the notice of the concerned bodies in the next meeting.

6.4 The general structure of the programme shall be as given below:

	MA/ M.Sc	MBA/MIB Full-Time	MBA* Part-Time	MCA	M.Tech
Programme duration	4 Sem.	4 Sem.	6 Sem.	6 Sem.	3 Sem.
Accumulated minimum credit required for successful completion of the programme	72	87	87	108	54
Minimum Attendance required	75%	75%	75%	75%	75%

Note: *MBA (PT) Programme is stretched to 6 semesters with the same content as the full-time programme with 4 semesters.

Each semester shall have a minimum of 80 working days and one credit shall be given for one hour lecture or 3 hours of practical work per week. No regular student shall register for more than 24 credits and less than 16 credits per semester. In case of MBA (PT) students the minimum and maximum credits per semester will be 12 and 18 respectively.

7 *EVALUATION

- 7.1** The evaluation scheme for each semester contains two parts, an Internal Assessment and an end semester examination. The end semester examination shall cover the entire syllabus of the course. Equal weightage shall be given for the Internal Assessment and the end semester examination. All practical examinations will be internally evaluated as per the procedures laid down by the Department Councils concerned. There shall be only a single internal evaluation for the end semester examination. Immediately after the examination is over, the Head of the Department shall arrange an Internal valuation camp pertaining to all the end semester examinations conducted in the Department and the results shall be finalized within one month after the examination is over.
- 7.2** The existing rules for question paper setting shall apply for the conduct of all end semester examinations relating to all courses coming under these regulations.
- 7.3** For each subject, there shall be a separate minimum of 45% marks for end semester examination and 50% on aggregate for securing a complete pass in the subject.

Further resolved that following guidelines be followed to examine the grievances of students:

- i) Immediately after the examination, the Heads of Departments shall arrange a valuation camp for the internal evaluation of all the end semester examinations conducted by the Departments and also outside the Department for Choice Based Credit System.
- ii) Once the evaluation process is over, the students should have an opportunity to verify his/her own answer scripts and to place grievances, if any, with regard to the evaluation.
- iii) The Department Council concerned shall examine the grievances and take appropriate measures to redress them through minutes of the meeting.
- iv) There shall be documentary evidence to the effect that the answer script after evaluation is seen by the respective student before result finalization.
- v) After the redressal of grievances, if any, received on the evaluation process, a pass board meeting as per rules in this regard will be held at the Department concerned.
- vi) The Minutes of the pass board meeting along with the details of marks scored by each student for every subject shall be forwarded to the Controller of Examinations to enable official publication of the result.
- vii) There will not be any further reevaluation of the answer scripts.

The Heads of Departments shall ensure that the result of every examination conducted in the Department is published within one month after the examination.

It is also resolved to conduct special Supplementary Examinations for the final two semesters to **save a year** for the PG Courses irrespective of the year of admission.

** Added the amendment (w.e.f 2015 admission) vide U.O. No.Conf.II/2941/2/2015 dated 04.03.2016.*

8 GRADE CARD

8.1	The University under its seal shall issue a Grade Card to the students on completion of each semester. The Grade card shall contain the following:		
	a.	Title of the course taken as core, elective and audit. (An audit course shall be listed only if the student has passed in it)	
	b.	The credits associated with and the grades awarded for each course.	
	c.	The number of credits (core and elective separately) earned by the student and the Grade point Average.	
	d.	The total credits (core and elective) earned till that semester.	
8.2	The following grading system be adopted for all the course. The following grades will be awarded based on the overall performance in each subject.		
	Range of Marks	Grades	Weightage
	90% and above	S-Outstanding	10
	(80-90)	A-Excellent	9
	(70-80)	B-Very good	8
	(60-70)	C-Good	7
	(50-60)	D-Satisfactory	6
	Below 50%	F-Failed	0

Where (x-y) means that x is included and y is excluded. The system of separate minimum for external/internal examinations be dispensed with, to ensure uniformity. Overall performance at the end of the semester will be indicated by Grade point Average (GPA) calculated as follows.

$$\text{GPA} = \frac{G1C1+G2C2+G3C3+\dots\dots\dots G_nC_n}{C1+C2+C3+\dots\dots\dots C_n}$$

Where ‘G’ refers to the grade weightage and ‘C’ refers to the credit value of corresponding course undergone by the student (CGPA) will be calculated based on the above formula.

Classification for the Degree/Diploma will be given as follows:

First Class with distinction	8 and above
First Class	7 and above
Second Class	6 and above

8.3 The Grade issued at the end of the final semester shall contain the details of all the courses taken which shall include the titles of the courses, the credits associated with each course, the CGPA and the class. The rank shall be awarded based on CGPA corrected to the 2nd Decimal.

8.4 Those who fail any core or elective course shall be given two additional chances for appearing for the semesterend examination within period of two years after the completion of the course. However, the marks obtained by the continuous a assessment during the semester can be improved only by repeating the course. Students can repeat the course after obtaining permission from the Department Council.

9 DEPARTMENT COUNCIL

9.1 Every post graduate programme conducted in the Departments shall be monitored by the Department Council subject to these regulations. The Department Council shall design courses, prescribe the mode of conducting the courses and evaluating the students and teachers.

10 ACADEMIC COMMITTEE

10.1 There shall be an Academic Committee constituted by the Vice-Chancellor to monitor and co-ordinate the working of the credit and semester system.

- 10.2 The Committee shall consist of:
- a The Pro-Vice-Chancellor Chairman
 - b The Registrar Secretary
 - c The Controller of Examinations
 - d One Teacher from each Department
- 10.3 A Senior Professor nominated by the Vice-Chancellor from among the members of the Committee shall be the Vice-Chairman of the Committee
- 10.4 The term of the office of the committee shall be two years, but the committee once constituted shall continue in office into, a reconstituted committee assumes office.

11 TRANSITORY PROVISION

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

12 REPEAL

The Regulations now in force in so far as they are applicable to programmes offered in the university Departments and to the extent they are inconsistency between the existing regulations and the regulations relating to the Credit and Semester System in their application to any course offered in a University Department, the latter shall prevail.

**REGULATIONS FOR THE M.TECH PROGRAMMES OFFERED BY THE
UNIVERSITY DEPARTMENTS/SCHOOLS**

The following regulations are made applicable to all the Full time and Part time M.Tech programmes offered by the Departments/ Schools of the University with effect from the academic year 2015-2016.

1. M.Tech Programme

The Full time M.Tech programmes offered by the Departments / Schools of the University shall be of four semesters duration spanning over a period of two academic years; wherein the first two semesters will include lectures, laboratory work, and seminars. The student will devote the third and fourth semesters on a project work related to a relevant area of the specialization either in the Department/School or in an industrial/ research/academic institution outside the University.

The Part-Time M.Tech Programme in the University shall be of six semesters duration spanning over a period of three years; wherein the first four semesters will include lectures, laboratory work/seminars. The student will devote part of fourth semester and the fifth and sixth semesters on a project work related to a relevant area of the specialization either in the Department or in collaboration with an industrial/research/ academic institution outside the University.

1.1 Branches of Study / Specialization

Sl. No.	Branch of study/ specialization	Department / Division/ School offering the programme	Full time/ Part time
1.	Atmospheric Science	Department of Atmospheric Sciences	Full time
2.	Engineering Statistics	Department of Statistics	Full time
3.	Ocean Technology	Department of Physical Oceanography	Full time
4.	Industrial Catalysis	Department of Applied Chemistry	Full time
5.	Polymer Technology	Department of Polymer Science and Rubber Technology	Full time
6.	Computer Aided Structural Analysis & Design	Department of Ship Technology	Full time
7.	Opto-Electronics and Laser Technology	International School of Photonics	Full time
8.	Electronics (with specialization in Digital Electronics, Microwave & Radar Electronics)	Department of Electronics	Full time

9.	Computer and Information Science	Department of Computer Science	Full time
10.	Software Engineering	Department of Computer Science	Full time
11.	Computer Science with specialization in Embedded Systems	Department of Computer Science	Part time
12.	Marine Biotechnology	School of Environmental Studies (offered at NCAAH)	Full time
13.	Civil Engineering (with specialization in Geotechnical Engineering)	Division of Civil Engineering School of Engineering	Full time
14.	Mechanical Engineering (with specialization in Thermal Engineering)	Division of Mechanical Engineering, School of Engineering	Full time
15.	Electronics and Communication Engineering (with specialization in Wireless Technology)	Division of Electronics Engineering School of Engineering	Full time
16.	Software Systems	Division of Information Technology School of Engineering	Full time
17.	Industrial Safety (Specialization - HSE Management)	Division of Safety and Fire Engineering School of Engineering	Full time
18.	Computer Science and Engineering (with specialization in Network Computing)	Division of Computer Engineering, School of Engineering	Full time
19.	Marine Engineering	Kunjali Marakkar School of Marine Engineering	Full time
20.	Civil Engineering – Construction Engineering & Management	Division of Civil Engineering School of Engineering	Part time
21.	Mechanical Engineering – Production Engineering	Division of Mechanical Engineering School of Engineering	Part time
22.	Chemical Engineering – Process Engineering	Division of Chemical Engineering School of Engineering	Part time
23.	Electrical & Electronics Engineering – Power Electronics	Division of Electrical Engineering School of Engineering	Part time

A student is admitted to the course as per the eligibility criteria prescribed below:

1.2. Eligibility for admission

1.2.1. The specific eligibility criteria for the various full time and part time programmes are given below.

6. Computer Aided Structural Analysis & Design

B.Tech or Equivalent degree in Naval Architecture and Ship Building/Civil Engineering/Mechanical Engineering with first class (60%) marks from any Recognized University or Institution.

20. Applications from candidates who have passed B.Tech / B.Sc (Engg.) /BE degree examination in allied branches of Engineering / Technology with a minimum of 50% marks may also be considered in the absence of sufficient number of candidates from the respective branch of engineering. The suitability of such candidates for the course may be assessed by an admission committee constituted by the Head of the Department / School.

Candidates who have passed sections A and B of the Associate Membership/ Graduate Membership Examinations in respective branches conducted by the Institution of Engineers (India), Institution of Electronics and Telecommunication Engineers and Indian Institute of Chemical Engineers with a minimum of 50 percent marks are also eligible for admission if they have an engineering diploma or a basic degree in science.

- a) A minimum of 2 years of professional experience in the concerned field is required after acquiring the qualifying degree. This may be relaxed if sufficient number of candidates with the minimum prescribed experience are not available.
- b) Admission will be based on the rank list prepared by giving due weightage to qualifying degree marks (50%), admission test conducted by the Department (40%), and number of years of experience after obtaining the degree (weightage at the rate of 1% per year of experience subject to a maximum of 10%).

- 1.2.2 In the case of full time programmes listed under Sl. No. 1 to 18 above, preference will be given to candidates having a valid GATE score in the concerned branch of study. In case such candidates are not available, candidates with GATE score in a related branch will be considered.

In the absence of sufficient candidates with valid GATE score, admission will be made on the basis of a Departmental Admission Test (DAT).

- 1.2.3 Candidate for sponsored quota must have a minimum experience of three years in the relevant field and must be sponsored by University or Industry/Teaching/Research Organizations of Centre/State Government/or by Private Engineering Colleges approved by AICTE. Maximum age of sponsored candidates is fixed as 40 years as on 1st of August of the year of admission. Also, a special fee equivalent to the contingent grant received for GATE qualified candidates will be levied on the sponsored candidates.

1.3 Course Structure

- 1.3.1 The course content of M.Tech programmes shall consist of theory courses, practical courses, seminar, industrial training (optional) and project work.

- 1.3.2 The curriculum for the first two semesters shall generally consist of theory courses, practical courses and seminar.
- 1.3.3 Each theory course will carry three or four credits and each practical course / seminar will have one or two credits.
- 1.3.4 The number of credits for the project work in third and fourth semesters shall be in the range of 15 – 18 each.
- 1.3.5 The minimum number of credits to be earned by a student for the award of the M.Tech degree shall be 72 subject to the condition that the candidate successfully completes all the core and elective courses prescribed by the Department /School.

1.4 Mode of Evaluation

- 1.4.1 A student would be considered to have progressed satisfactorily at the end of a semester if he/she has a minimum of 75 % attendance subject to the provision in clause (3) of the regulations. In the case of part-time students, the Vice-Chancellor shall have the power to condone shortage of attendance up to 10 percent on medical grounds on the recommendations of the Head of Division /Department. However such condonation for shortage of attendance shall be given only once during the entire course.
- 1.4.2 The student shall be evaluated continuously throughout the semester and marks shall be awarded on the basis of tests / assignments as detailed below :
 - A maximum of 20 marks are awarded for the various assignments given to the students by the concerned teacher.
 - There shall be two class tests and an end semester examination.
 - The first class test carries 20 marks and will be based on the portions of the syllabi covered till then.
 - The second class test also carries 20 marks and will be based on the portions covered till then after the first class test.

The end semester examination will be for 40 marks and shall contain questions from the entire syllabi of the course.

The duration of the end semester examination shall be three hours.

- 1.4.3 The results of each subject in a semester shall be finalized by the concerned faculty member within 10 days from the last date of the end semester examination and the marks and grades obtained by the candidate in each subject shall be displayed on the notice board with the approval of the course-coordinator and head of the division/ Department/school concerned.
- 1.4.4 The pass minimum in a subject is 50 %. If a candidate fails to secure 50% marks, he/she shall be deemed to have failed in the subject.
- 1.4.5 A makeup examination for the end semester examination shall be conducted for the failed candidates within 10 days from the date of display of the marks/grades. Such examination shall carry questions from the entire portions of the syllabus and the weightage shall be only 75%. It shall substitute one of the three tests that has fetched the least marks.
- 1.4.6 The final marks/grade of the candidate taking into account his/her performance in the makeup examination and periodic tests and assignments shall be finalized within 5 days from the date of the makeup examination. A candidate securing a minimum 50 percent marks shall be considered to have passed in that subject.
- 1.4.7 If the candidate fails to meet the minimum requirement for pass even after two attempts, he / she shall have to repeat the subject at the next available chance.
- 1.4.8 A pass in the course will entitle the student to acquire the number of credits allotted for that particular course. (for the details of number of credits, please refer to the course structure.)
- 1.4.9 A student shall acquire a minimum of 36 credits in the first two semesters before he/she registers for third semester. A student shall complete the M.Tech programme in 8 (eight) consecutive semesters in the case of full time programme and 10 (ten) consecutive semesters in the case of part time programme by acquiring the minimum total credit requirement of 72.
- 1.4.10 *A sponsored candidate who wishes to go back to his/her employer or a non sponsored candidate, who secures professional employment after completing the II semester of the M.Tech programmes, shall obtain permission from the Head of the Department, for the choice of their place of project work at the commencement of the III semester. Such permission may be granted only on merit basis on the recommendation of the Departmental Council and on the production of a certificate from the Head of that institution which shall be at par with the Department offering the M.Tech programme, to effect that the student is permitted to carry out project work at the Organization/Institution where he/she proposed to do the work. In such cases the candidate shall be supervised by an officer from the Organisation/Institution along with a member of the faculty in the respective Department.

**Added the amendment vide notification No.Conf.II/2941/03/2015 (11) dated 09.02.2016.*

1.4.11 Project evaluation shall be done at the end of III and IV semesters in the case of full time programmes and at the end of V and VI semesters in the case of part time programmes.

The evaluation at the end of III Semester (Full time)/ V Semester (Part time) shall be conducted by an examination committee consisting of the head of the Department / school / division, a senior teacher nominated by the head and the project guide.

At the end of IV or VI semester, the students will have to submit a dissertation on his / her project work. The dissertation shall have to be submitted as per the guidelines given in Appendix I.

Three bound copies along with a soft copy of the dissertation shall be submitted to the Head of the Department/School within the last date prescribed by the Department / School for the purpose

1.4.12 The dissertation will be evaluated by an examination committee consisting of the head of the Department / school / division, another senior teacher of the Department/school /division concerned nominated by the Head of the Department / School and the project guide. However an external examiner may also be included in the examination committee with the approval of the Department / School Council. The candidate shall make an open defence of his/her dissertation which will be followed by a viva-voce examination.

1.4.13 For the purpose of assessment, the performance of a student in the project dissertation may be divided into the following sub components:

At the end of III semester (Full time) / V Semester (Part time)

Assessment by the project guide (based on periodic assessment of the work of the candidate) - 50%

Assessment by the examination committee - 50%

At the end of IV semester (Full time) / VI Semester (Part time)

Assessment by the project guide (based on periodic assessment of the work of the candidate) - 50%

Assessment by the examination committee - 50%

1.5 Classification

The following grading system is adopted for all the courses. The following grades will be awarded based on the overall performance in each subject.

<u>Range of Marks</u>	<u>Grades</u>	<u>Weightage</u>
90 % and above	S- Outstanding	10
(80-89)	A- Excellent	9
(70-79)	B-Very Good	8
(60-69)	C- Good	
(50-59)	D- Satisfactory	6
Below 50%	F- Failed	0

Overall performance at the end of the semester will be indicated by Grade Point Average (GPA) calculated as follows:

$$\text{GPA} = \frac{\text{G1C1} + \text{G2C2} + \text{G3C3} + \dots + \text{GnCn}}{\text{C1} + \text{C2} + \text{C3} + \dots + \text{Cn}}$$

Where 'G' refers to the grade weightage and 'C' refers to the credit value of corresponding course undergone by the student.

At the end of the final semester, Cumulative Grade Point Average (CGPA) will be calculated based on the above formula.

Classification for the Degree will be as follows :

<u>Classification</u>	<u>CGPA</u>
First class with distinction	8 and above
First class	7 and above
Second class	6 and above

2.0 Declaration of Results

An examination committee consisting of the Head of the Department (Chairperson), a senior teacher/Head of the Division concerned and the Course Coordinator shall scrutinise the marks and grades obtained by the candidates and finalise the results. The examination committee will be constituted by the Head of the Department/school. The final marks will be reported to the University for tabulation and declaration of results. The University shall issue mark lists at the end of each semester.

2.1 Review of Question Papers and Valuation of answer books

At the end of each semester, the question papers set for class tests and end semester examination will be reviewed by the Department / School Council. The review report may be placed in the Board of Studies concerned for scrutiny.

2.2 Grievance Cell

The Departmental/School Council or a subcommittee nominated by the Council will act as the grievance cell for the redress of complaints from the students on the conduct of the class test, semester exam, and the valuation methodology. The student shall make such complaints to the Head of the Department/School within a week of the display of the marks/grades for a particular course on the Notice board of the Department/Division.

3.0 Leave for a Full time M.Tech student

3.1 A full time M.Tech student shall be entitled to the following kinds of leave during every academic year, counted from the date of commencement of the session concerned as prescribed in the academic calendar of the institute.

3.2 Any absence over and above the prescribed type of admissible leave shall entail deduction from the scholarship, beside other action as may be decided by the University.

Sl. No	Leave	Maximum number of days	Sanctioning authority
1.	Casual Leave	5 days per semester subject to the condition that such leave will not be allowed for more than 3 days at a time. Casual leave cannot be combined with medical leave.	Head of the Department/ School
2.	Medical Leave	3 days per semester	Head of the Department/School on the basis of a Medical Certificate from a registered Medical Practitioner certified by the University Medical Officer.

4.0 Revision of Regulation and Curriculum

The University may from time to time, revise, amend or change the regulations, schemes of examinations and syllabus. In the case of students already undergoing the course, the change will take effect from the beginning of the following academic year after the changes are introduced and shall cover the part of the course that remains to be completed.

APPENDIX-I

GUIDELINES FOR PREPARATION OF M.Tech DISSERTATION

Preamble

While utmost attention must be paid to the content of the dissertation report, which is being submitted in partial fulfilment of the requirements of the M.Tech degree, it is imperative that a standard format be prescribed. The same format shall also be followed in preparation of the final soft copies to be submitted to the Library in future.

I Organisation of the Dissertation

The dissertation report shall be presented in a number of chapters, starting with Introduction and ending with Summary and Conclusions. Each of the other chapters will have a precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, subsections and sub-subsection so as to present the content discretely and with due emphasis. When the work comprises two or more mutually independent investigations, the dissertation report may be divided into two or more parts, each with an appropriate title. However, the numbering of chapters will be continuous right through, for example Part 1 may comprise Chapters 2 - 5, Part 2, Chapters 6 - 9.

1.1 Introduction

The title of Chapter 1 shall be Introduction. It shall justify and highlight the problem posed, define the topic and explain the aim and scope of the work presented in the dissertation report. It may also highlight the significant contributions from the investigation.

1.2 Review of Literature

This shall normally form Chapter 2 and shall present a critical appraisal of the previous work published in the literature pertaining to the topic of the investigation. The extent and emphasis of the chapter shall depend on the nature of the investigation.

1.3 Report on the present investigation

The reporting on the investigation shall be presented in one or more chapters with appropriate chapter titles. Due importance shall be given to experimental setups, procedures adopted, techniques developed, methodologies developed and adopted. While important derivations/formulae should normally be presented in the text of these chapters, extensive and long treatments, copious details and tedious information, detailed results in tabular and graphical forms may be presented in Appendices. Representative data in table and figures may, however, be included in appropriate chapters. Figures and tables should be presented immediately following their first mention in the text. Short tables and figures (say, less than half the writing area of the page) should be presented within the text, while large table and figures may be presented on separate pages. Equations should form separate lines with appropriate paragraph separation above and below the equation line, with equation numbers flushed to the right.

1.4 Results and Discussion

This shall form the penultimate chapter of the dissertation report and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study. The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.

1.5 Summary and Conclusions

This will be the final chapter of the dissertation report. A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the Results and Discussions Chapter shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the chapter.

1.6 Appendix

Detailed information, lengthy derivations, raw experimental observations etc. are to be presented in separate appendices, which shall be numbered in Roman Capitals (e.g. "Appendix IV"). Since reference can be drawn to published/unpublished literature in the appendices these should precede the "Literature Cited" section.

1.7 Literature Cited

This should follow the Appendices, if any, otherwise the Summary and Conclusions chapter. The candidates shall follow the style of citation and style of listing in one of the standard journals in the subject area consistently throughout his/her report. However, the names of all the authors along with their initials and the full title of the article/monogram/book etc. have to be given in addition to the journals/publishers, volume, number, pages(s) and year of publication. Citation from websites should include the names(s) of author(s) (including the initials), full title of the article, website reference and when last accessed. Reference to personal communications, similarly, shall include the author, title of the communication (if any) and date of receipt.

1.8 Publications by the candidate

Articles, technical notes etc. on the topic of the dissertation report published by the candidate may be separately listed after the literature cited. This may also be included in the contents. The candidates may also include reprints of his/her publications after the literature citation.

1.9 Acknowledgements

The acknowledgments by the candidate shall follow the citation of literature, signed by him/her, with date.

2. DISSERTATION FORMAT

2.1 Paper

2.1.1 Quality: The dissertation report shall be printed / photo copied on white bond paper, whiteness 95% or above, weight 70 gram or more per square meter.

2.1.2 Size: The size of the paper shall be standard A4; height 297 mm, width 210 mm.

2.1.3 Type Setting, Text Processing and Printing: The text shall be printed employing Laser jet or Inkjet printer, the text having been processed using a standard text processor. The standard font shall be Times New Roman of 12 pts with 1.5 line spacing.

2.1.4 Page Format: The Printed Sheets shall have the following written area and margins:

Top Margin 15 mm

Head Height 3 mm

Head Separation 12 mm

Bottom Margin 22 mm

Footer 3 mm

Foot Separation 10 mm

Text Height 245 mm

Text Width 160 mm

When header is not used the top margin shall be 30 mm.

Left and Right Margins

Single sided

Left Margin 30mm

Right Margin 20 mm

2.1.5 Pagnation: Page numbering in the text of the report shall be Hindu Arabic numerals at the centre of the footer. But when the candidate opts for header style the page number shall appear at the right and left top corner for the odd and even number pages, respectively. Page number “1” for the first page of the Introduction chapter shall not appear in print, only the second page will bear the number “2”. The subsequent chapters shall begin on a fresh page. When header style is chosen the first page of each chapter will not have the header and the page number shall be printed at the centre of the footer. Pagnation for pages before the Introduction chapter shall be in lower case Roman numerals, e.g., “iv”.

2.1.7 Paragraph format: Vertical space between paragraphs shall be about 2.5 line spacing. The first line of each paragraph should normally be indented by five characters or 12mm. A candidate may, however, choose not to indent if he/she has provided sufficient paragraph separation. A paragraph should normally comprise more than one line. A single line of a paragraph shall not be left at the top or bottom of a page (that is, no windows or orphans should be left). The word at the right end of the first line of a page or paragraph should, as far as possible, not be hyphenated.

2.2 Chapter and Section Format

2.2.1 Chapter: Each chapter shall begin on a fresh page with an additional top margin of about 75mm. Chapter number (in Hindu-Arabic) and title shall be printed at the centre of the line in 6mm font size (18pt) in bold face using both upper and lower case (all capitals or small capitals shall not be used). A vertical gap of about 25mm shall be left between the Chapter number and Chapter title lines and between chapter title line and the first paragraph.

2.2.2 Sections and Subsections: A chapter can be divided into Sections, Subsections and Sub-sub Sections so as to present different concepts separately. Sections and subsections can be numbered using decimal points, e.g. 2.2 for the second section in Chapter 2 and 2.3.4 for the fourth Subsection in third Section of Chapter 2. Chapters, Sections and Subsections shall be included in the contents with page numbers flushed to the right. Further subsections need not be numbered or included in the contents. The Section and Sub-Section titles along with their numbers in 5 and 4mm (16 and 14 pt) fonts, respectively, in bold face shall be flushed to the left (not centred) with 15 mm space above and below these lines. In further subdivisions character size of 3 and 3.5 with bold face, small caps, all caps and italics may be used for the titles flushed left or centred. These shall not feature in the contents.

2.2.3 Table / Figure Format: As far as possible, tables and figures should be presented in portrait style. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented on separate pages. Table and figures shall be numbered chapter wise.

For example, the fourth figure in chapter 5 will bear the number Figure 5.4 or Fig 5.4 Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption, e.g. (after McGregor[12]).

3. Auxiliary Format

- 3.1 Binding:** The evaluation copies of the dissertation report may be spiral bound or soft bound. The final hard bound copies to be submitted after the viva-voce examination will be accepted during the submission of dissertation report with the following colour specification:

M.Tech. Dissertation

- 3.2 Front Covers:** The front covers shall contain the following details:
Full title of report in 6 mm 22 point's size font properly centred and positioned at the top. Full name of the candidate in 4.5 mm 15 point's size font properly centred at the middle of the page. A 40 mm dia replica of the Institute emblem followed by the name of Department, name of the Institute and the year of submission, each in a separate line and properly centred and located at the bottom of page.
- 3.2.1 Lettering:** All lettering shall be embossed in gold.
- 3.2.2 Bound back:** The degree, the name of the candidate and the year of submission shall also be embossed on the bound (side) in gold.
- 3.3 Blank Sheets:** In addition to the white sheets (binding requirement) two white sheets shall be put at the beginning and the end of the report.
- 3.4 Title Sheet:** This shall be the first printed page of the Dissertation and shall contain the submission statement: the Dissertation Report submitted in partial fulfilment of the requirements of the M.Tech Degree, the name and Roll No. of the candidate, name(s) of the Supervisor and Co-supervisor(s) (if any), Department, Institute and year of submission.
Sample copy of the 'Title Sheet' is appended (Specimen 'A').
- 3.5 Dedication Sheet:** If the candidate so desires(s), he/she may dedicate his/her report, which statement shall follow the title page. If included, this shall form the page 1 of the auxiliary sheets but shall not have a page number.
- 3.6 Approval Sheet:** In the absence of a dedication sheet this will form the first page and in that case shall not have a page number. Otherwise, this will bear the number two in Roman lower case "ii" at the centre of the footer. The top line shall be: Dissertation Approval for M.Tech A sample copy of the Approval Sheet is appended (Specimen `B')
- 3.7 Abstract:** The 500 word abstract shall highlight the important features of the dissertation report and shall correspond to the electronic version to be submitted to the Library for inclusion in the website. The Abstract in the report, however, shall have two more parts, namely, the layout of the report giving a brief chapter wise description of the work and the key words.
- 3.8 Contents:** The contents shall follow the Abstract and shall enlist the titles of the chapters, section and subsection using decimal notation, as in the text, with corresponding page number against them, flushed to the right.
- 3.8.1 List of Figures and Tables:** Two separate lists of Figure captions and Table titles along with their numbers and corresponding page numbers against them shall follow the Contents.
- 3.9 Approval Sheet:** In the absence of a dedication sheet this will form the first page and in that case shall not have a page number. Otherwise, this will bear the number two in Roman lower case "ii" at the centre of the footer. The top line shall be: Dissertation Approval for M.Tech
A sample copy of the Approval Sheet is appended (Specimen `B')

3.10 A Declaration of Academic Honesty and Integrity: A declaration of Academic honesty and integrity is required to be included along with every dissertation report after the approval sheet. The format of this declaration is given in Specimen 'C' attached.

Specimen 'A': Title Sheet

(Title)

Dissertation Submitted in partial fulfilment of the requirements of the degree of Master of Technology by

(Name of the Student)

(Roll No. _____)

Project Guide(s):

(Name of the Department / School / Division)

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

(Month and Year)

Specimen `B': Approval Sheet

This dissertation entitled (Title) by (Author Name) is recommended for the award of the Degree of Master of Technology.

Members of the Examination Committee (Name and Signature)

Date : _____

Place : _____

Specimen `C' – Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

(Signature)

(Name of the student)

(Roll No.)

Date: _____

Specimen `D' – Certificate

**DEPARTMENT / SCHOOL OF -----
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

This is to certify that the dissertation work entitled “ -----“ is a bonafide record of work carried out by Mr/Ms -----(Roll No.), submitted to the Department / School of -----, in partial fulfilment of the requirements for the award of the degree of Master of Technology in “*name of the program*” at Cochin University of Science and Technology, Kochi during the academic year -----.

Name and Signature of the Project Guide -----

Signature of Head of the Division / Department / School -----

Date:

ACADEMIC CALENDAR 2016-2017		
JULY 2016		
Date	Day	Remarks
1	Friday	CBCS Course Registration
2	Saturday	
3	Sunday	
4	Monday	1. Commencement of classes - all PG courses including I semester, III semester B.Tech General including B.Tech Marine Engineering, 2nd 3 year LL.B (2015 admission)
5	Tuesday	
6	Wednesday	RAMZAN
7	Thursday	Ending of Vanamahostsava Week
8	Friday	1. Starting of International Literacy Week 2. CBCS Course Registration Ends
9	Saturday	Campus cleaning under Swatch Bharat Mission
10	Sunday	
11	Monday	World Population Day
12	Tuesday	
13	Wednesday	
14	Thursday	Ending of International Literacy Week
15	Friday	1. Commencement of classes - II semester M.Voc (1st batch) 2. last date of dropping courses(Electives)
16	Saturday	
17	Sunday	
18	Monday	Commencement of classes - I semester M.Sc Photonics , 5 year LL.B courses, 1st 3 year LL.B (2016 admission), I semester B.Tech NA&SB, B.Tech PS&RT & B.Tech Instrumentation, I semester M.Voc (2nd batch)
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	Sunday	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	Election of Office Bearers
30	Saturday	
31	Sunday	

ACADEMIC CALENDAR 2016-2017		
<i>August 2016</i>		
Date	Day	Remarks
1	Monday	Commencement of classes - I semester B.Tech General including B.Tech Marine Engineering
2	Tuesday	KARKKIDAKA VAVU
3	Wednesday	
4	Thursday	Oath Taking of Office Bearers of CUU
5	Friday	
6	Saturday	Commencement of Selection to Inter University Arts Competitions (without affecting classes)
7	Sunday	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	
14	Sunday	
15	Monday	1. End of Selection to Inter University Arts Competitions (without affecting classes) 2. Beginning of NSS Regular Activities 3. INDEPENDENCE DAY
16	Tuesday	Commencement of 1st internal
17	Wednesday	
18	Thursday	Inauguration of CUU
19	Friday	
20	Saturday	SADBAVANA DAY
21	Sunday	
22	Monday	
23	Tuesday	
24	Wednesday	SREEKRISHNA JAYANTHI
25	Thursday	All India/South Zone Inter University Selection Trials
26	Friday	
27	Saturday	
28	Sunday	Science Lecture Series: Lecture 1 - Presentation on the Tell-Tale Brain
29	Monday	
30	Tuesday	
31	Wednesday	

ACADEMIC CALENDAR 2016-2017		
September 2016		
Date	Day	Remarks
1	Thursday	Commencement of Adventure Sports - Girls
2	Friday	Commencement of Nature Camp - Monsoon Madness
3	Saturday	
4	Sunday	End of Adventure Sports - Girls
5	Monday	End of Nature Camp - Monsoon Madness
6	Tuesday	
7	Wednesday	
8	Thursday	International Literacy Day & Week - Pledge taking ceremony by NSS volunteers, visit to adopted village, slum to organize dialogue and discussion on literacy, putting up hoardings & banners for focusing public attention
9	Friday	Starting of Onam Vacation (Forenoon onwards)
10	Saturday	
11	Sunday	
12	Monday	BAKRID
13	Tuesday	FIRST ONAM
14	Wednesday	THIRUVONAM
15	Thursday	THIRD ONAM
16	Friday	1. FOURTH ONAM 2. SREENARAYANA JAYANTHI 3. Commencement of Music Workshop (Evening)
17	Saturday	
18	Sunday	
19	Monday	1. Reopening after Onam Vacation 2. Commencement of Environmental Film Festival CUSAT
20	Tuesday	
21	Wednesday	SREE NARAYANA SAMADHI
22	Thursday	
23	Friday	1. End of Environmental Film Festival CUSAT 2. Last date for registration of examination at departments (without fine) - III, V & VII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation 3. Last date for registration of examination at respective examination Centre's (without fine) – I, III, V & VII semesters B.F.Sc (Nautical Science)
24	Saturday	1. Celebration of NSS day 2. Last date for registration of examination at departments (without fine) - I, III, V, VII & IX semesters M.Sc Photonics and 5 year LL.B courses 3. Last date for registration of examination at departments (with fine) - V semester M.Sc Photonics & 5 year LL.B courses
25	Sunday	

26	Monday	<ol style="list-style-type: none"> 1. End of Music Workshop (Evening) 2. Last date for registration of examination at respective exam Centre's (without fine) - V semester B.Tech General including B.Tech Marine Engineering 3. Commencement of 2nd internal
27	Tuesday	Campus Music Festival
28	Wednesday	
29	Thursday	Commencement of Adventure Sports - Boys
30	Friday	<ol style="list-style-type: none"> 1. Last date for registration of examination at respective examination Centre's (without fine) - I,III, V semesters PG courses 2. Adventure Sports - Boys/Counter Knowledge: Journey through Indian Villages to understand local knowledge base 3. Last date for registration of examination at departments (with fine) - III, V & VII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation 4. Last date for registration of examination at respective examination Centre's (with fine) – I, III, V & VII semesters B.F.Sc (Nautical Science) 5. Last date for registration of examination at respective exam Centre's (without fine) - 2nd 3 year LL.B (2015 admission)

ACADEMIC CALENDAR 2016-2017

October 2016

Date	Day	Remarks
1	Saturday	<ol style="list-style-type: none"> 1. Last date for registration of examination at departments (with fine) - I, III, VII & IX semesters M.Sc Photonics & 5 year LL.B courses 2. Last date for submission of application forms with DCB statements and proof of remittance of fees to the University Office by respective departments - V semester M.Sc Photonics and 5 year LL.B courses 3. Counter Knowledge: Journey through Indian Villages to understand local knowledge base 4. National Blood Donation Day
2	Sunday	<ol style="list-style-type: none"> 1. End of Adventure Sports - Boys 2. Counter Knowledge: Journey through Indian Villages to understand local knowledge base 3. GANDHI JAYANTHI 4. Communal Harmony Day
3	Monday	<ol style="list-style-type: none"> 1. Last date for registration of examination at respective exam Centre's (with fine) - V, VII semesters B.Tech General including B.Tech Marine Engineering 2. Last date for registration of examination at respective exam Centre's (without fine) - VII semester B.Tech General including B.Tech Marine Engineering
4	Tuesday	Last date for submission of application forms with DCB statements and proof of remittance of fees to the University office by respective departments - III, V & VII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
5	Wednesday	<ol style="list-style-type: none"> 1. Last date for registration of examination at respective exam Centre's (without fine) - III semester B.Tech General including B.Tech Marine Engineering 2. Last date for submission of application forms, DCB statements with fees by exam Centre's/respective departments to the University Office - V, VII semesters B.Tech General including B.Tech Marine Engineering/I, III, VII & IX semesters M.Sc Photonics & 5 year LL.B courses 3. Submission of Attendance - V semester M.Sc Photonics & 5 year LL.B courses
6	Thursday	
7	Friday	<ol style="list-style-type: none"> 1. Last date for submission of application forms with DCB statements and proof of remittance of fees by exam Centre's - I, III, V & VII semesters B.F.Sc (Nautical Science) 2. Last date for registration of examination at respective exam Centre's (with fine) - 2nd 3 year LL.B (2015 admission)
8	Saturday	
9	Sunday	

10	Monday	<p>1. Last date of registration of examination at respective examination Centre's (with fine) - I,III,V semesters PG courses</p> <p>2. Last date for submission of application forms with DCB statements and proof of remittance of fees by exam Centre's to the University Office - 2nd 3 year LL.B (2015 admission)</p> <p>3. MAHANAVAMI</p>
11	Tuesday	VIJAYADASAMI
12	Wednesday	MUHARRAM
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	
17	Monday	Last date for submission of application forms with DCB statements and proof of remittance of fees by exam Centre's - I, III, V semesters PG courses
18	Tuesday	Protect your Mom - Breast Cancer Awareness Programme
19	Wednesday	
20	Thursday	Submission of Attendance - V, VII semester B.Tech General including B.Tech Marine Engineering
21	Friday	<p>1. Submission of Attendance - III, V & VII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation/III, VII & IX semesters M.Sc Photonics and 5 year LL.B courses/III, V & VII semesters B.F.Sc (Nautical Science)</p> <p>2. Submission of Internal Marks - V semester M.Sc Photonics and 5 year LL.B courses</p> <p>3. Commencement of Discussion & Colloquium : LGBTQ - issues and challenges in India</p>
22	Saturday	Submission of Attendance - III, V semesters PG courses
23	Sunday	End of Discussion & Colloquium : LGBTQ - issues and challenges in India
24	Monday	<p>1. Submission of Internal Marks - V, VII semester B.Tech General including B.Tech Marine Engineering</p> <p>2. Last date for registration of examination at departments (without fine) - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation</p>
25	Tuesday	Course Registration for even semester
26	Wednesday	
27	Thursday	
28	Friday	Submission of Internal Marks (including lab marks) - III, V & VII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation/III, VII & IX semester M.Sc Photonics and 5 year LL.B courses/III, V & VII semesters B.F.Sc (Nautical Science) Closing of odd semester
29	Saturday	DEEPAVALI
30	Sunday	

31	Monday	<ol style="list-style-type: none">1. Commencement of exams/Submission of Dissertation - V semester M.Sc Photonics & 5 year LL.B courses2. Submission of Attendance - I semester PG courses/2nd 3 year LL.B (2015 admission)3. Last date for registration of examination at respective exam centres (without fine) - I semester B.Tech General including B.Tech Marine Engineering, 1st 3 year LL.B (2016 admission)4. Submission of Internal Marks - III, V semester PG courses
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ACADEMIC CALENDAR 2016-2017

November 2016

Date	Day	Remarks
1	Tuesday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - VII semester B.Tech General including B.Tech Marine Engineering 2. Last date for registration of examination at departments (with fine) - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
2	Wednesday	
3	Thursday	Commencement of exams/Submission of Dissertation - V semester B.Tech General including B.Tech Marine Engineering
4	Friday	Commencement of exams/Submission of Dissertation - VII semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation, IX semester M.Sc Photonics and 5 year LL.B courses
5	Saturday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - VII semester M.Sc Photonics & 5 year LL.B courses 2. Last date for submission of application forms with DCB statements and proof of remittance of fees to the University office by respective departments - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
6	Sunday	Science Lecture Series - Lecture 2
7	Monday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - V semester PG courses, III semester M.Sc Photonics & 5 year LL.B courses, V semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation 2. Last date for registration of examination at respective exam centres (with fine) - I semester B.Tech General including B.Tech Marine Engineering 3. Last date for registration of examination at respective exam centres (with fine) - 1st 3 year LL.B (2016 admission)
8	Tuesday	
9	Wednesday	Third Eye Project
10	Thursday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation – VII semester B.F.Sc(Nautical Science) 2. Last date for submission of application forms with DCB statements and proof of remittance of fees by exam centres to the University Office - 1st 3 year LL.B (2016 admission)
11	Friday	Commencement of exams/Submission of Dissertation - III semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation, V semester B.F.Sc(Nautical Science)
12	Saturday	
13	Sunday	
14	Monday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - III semester PG courses, III semester B.F.Sc(Nautical Science) 2. Submission of Internal Marks - I semester PG courses, 2nd 3 year LL.B (2015 admission) 3. Last date for submission of application forms, DCB statements with fees by exam centres to the University Office - I semester PG courses

15	Tuesday	Last date for registration of examination at respective exam centres (with fine) - III semester B.Tech General including B.Tech Marine Engineering
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	<ol style="list-style-type: none"> 1. Starting of Quami Ekta Week 2. National Integration Day : Meetings, Symposia, Seminars etc to emphasize secularism, anti-communalism and non-violence 3. Taking Integration Pledge
20	Sunday	Welfare of Minorities Day : welfare programmes for the minorites
21	Monday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - 2nd 3 year LL.B (2015 admission) 2. Weaker Sections Day: Special functions and programmes 3. Last date for submission of application forms, DCB statements with fees by exam centres to the University Office - III semester B.Tech General including B.Tech Marine Engineering 4. Submission of Attendance - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
22	Tuesday	Weaker Sections Day: Special functions and programmes
23	Wednesday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - I semester PG courses, I semester M.Voc (2nd batch) 2. Cultural Unity Day - programmes to promote cultural unity
24	Thursday	Women's Day - programmes to emphasize the role of women in our socieity
25	Friday	<ol style="list-style-type: none"> 1. Submission of Attendance - I, III semesters B.Tech General including B.Tech Marine Engineering/ I semester M.Sc Photonics and 5 year LL.B courses/I semester B.F.Sc (Nautical Science)/1st 3 year LL.B (2016 admission) 2. Submission of Internal Marks - I, III semesters B.Tech General including B.Tech Marine Engineering 3. Conservation Day - programmes on environmental conservation 4. Submission of Internal marks (including lab marks) - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
26	Saturday	
27	Sunday	
28	Monday	
29	Tuesday	
30	Wednesday	Submission of Internal Marks - I semester M.Sc Photonics and 5 year LL.B courses/I semester B.F.Sc (Nautical Science)/1st 3 year LL.B (2016 admission)

ACADEMIC CALENDAR 2016-2017

December 2016

Date	Day	Remarks
1	Thursday	<ol style="list-style-type: none"> 1. Commencement of classes - IV semester PG courses, VI & VIII semester B.Tech General including B.Tech Marine Engineering, IV, VI, VIII & X semester M.Sc Photonics & 5 year LL.B courses, IV, VI & VIII semester B.F.Sc (Nautical Science) 2. World Aids Day - programmes to spread awareness
2	Friday	Commencement of classes - 3rd 3 year LL.B (2012 admission)
3	Saturday	
4	Sunday	
5	Monday	<ol style="list-style-type: none"> 1. Commencement of classes - II semester PG courses, IV, VI & VIII semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, II semester M.Voc(2nd batch) 2. Commencement of exams/Submission of Dissertation - I semester B.Tech General including B.Tech Marine Engineering, I semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation, 1st 3 year LL.B(2016 admission), II semester M.Voc (1st batch)
6	Tuesday	Commencement of exams/Submission of Dissertation - III semester B.Tech General including B.Tech Marine Engineering
7	Wednesday	
8	Thursday	
9	Friday	<ol style="list-style-type: none"> 1. Tentative Date for publication of result, issue of mark list/provisional certificate - V semester PG courses 2. Last date for dropping courses
10	Saturday	World Human Rights Day
11	Sunday	
12	Monday	NABIDINAM
13	Tuesday	Commencement of exams/Submission of Dissertation - I semester M.Sc Photonics & 5 year LL.B courses
14	Wednesday	Commencement of exams/Submission of Dissertation – I semester B.F.Sc(Nautical Science)
15	Thursday	
16	Friday	Tentative Date for publication of result, issue of mark list/provisional certificate - III semester PG courses
17	Saturday	
18	Sunday	
19	Monday	Commencement of classes - III semester M.Voc (1st batch)
20	Tuesday	
21	Wednesday	
22	Thursday	Starting of Christmas Vacation
23	Friday	Tentative Date for publication of result, issue of mark list/provisional certificate - I semester PG courses
24	Saturday	
25	Sunday	CHRISTMAS

26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	Commencement of classes - VI semester PG courses
31	Saturday	

<i>January 2017</i>		
Date	Day	Remarks
1	Sunday	
2	Monday	Reopening after Christmas Vacation/Commencement of classes - II & IV semester B.Tech General including B.Tech Marine Engineering, II semester B.Tech NA&SB, B.Tech PS&RT & B.Tech Instrumentation, II semester M.Sc Photonics & 5 year LL.B courses, II semester B.F.Sc (Nautical Science), 2nd 3 year LL.B (2013 admission)
3	Tuesday	Tentative date for the publication of results - VII semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, VII semester B.F.Sc(Nautical Science)
4	Wednesday	
5	Thursday	Tentative date for the publication of results – V semester B.F.Sc (Nautical Science)
6	Friday	
7	Saturday	Science Lecture Series : Lecture 3
8	Sunday	
9	Monday	
10	Tuesday	<ol style="list-style-type: none"> 1. Tentative date for the publication of results - V semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, III, V, VII & IX semester M.Sc Photonics and 5 year LL.B courses, III semester B.F.Sc(Nautical Science) 2. National Youth Day - Presentation of Youth Award/lectures & symposia on the philosophy & teaching of Swami Vivekananda, Mahatma Gandhi, Pandit Jawaharlal Nehru and other national leaders as a source of inspiration to Indian Youth/Debate on the rolw of youth in the contemporary situation/Essay & drawing competitions amongst youth on philosophy and teachings of national leaders particularly Pandit Jawaharlal Nehru/Mahatma Gandhi
11	Wednesday	
12	Thursday	Starting of National Youth Week with appropriate programmes
13	Friday	<ol style="list-style-type: none"> 1. Tentative date for the publication of results - III semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation 2. Commencement of 34th Intercollegiate Sports & Games Meet 3. Commencement of Green Room VII: Cultivating Creativity
14	Saturday	
15	Sunday	End of Green Room VII: Cultivating Creativity
16	Monday	Commencement of 1st internal - even semester
17	Tuesday	
18	Wednesday	
19	Thursday	Ending of National Youth Week
20	Friday	
21	Saturday	
22	Sunday	
23	Monday	
24	Tuesday	<ol style="list-style-type: none"> 1. Last date for registration of examination at departments (with fine) - IV, VI, VIII & X semesters M.Sc Photonics & 5 year LL.B courses 2. End of Uty Arts Festival - Sargam

25	Wednesday	
26	Thursday	1. End of 34th Intercollegiate Sports & Games Meet 2. REPUBLIC DAY
27	Friday	1. Last date for registration of examination at departments (with fine) - II semester M.Sc Photonics and 5 year LL.B courses 2. Commencement of Film Workshop at Ramoji Film City, Hyderabad
28	Saturday	
29	Sunday	End of Film Workshop at Ramoji Film City, Hyderabad
30	Monday	Martyr Day
31	Tuesday	

ACADEMIC CALENDAR 2016-2017

February 2017

Date	Day	Remarks
1	Wednesday	
2	Thursday	
3	Friday	Tentative date for the publication of results - I semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	Sunday	
13	Monday	
14	Tuesday	
15	Wednesday	Last Date for registration of examination at departments (without fine) - IV,VI & VIII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
16	Thursday	
17	Friday	<ol style="list-style-type: none"> 1. Last date of registration of examination at departments (without fine) - IV, VI, VIII & X semesters M.Sc Photonics and 5 year LL.B courses 2. Last date for registration of examination at respective examination centres (without fine) – II, IV, VI & VIII semesters B.F.Sc (Nautical Science) 3. Tentative date for publication of results - 2nd 3 year LL.B (2015 admission) 4. Commencement of Rhythm of Life : Celebrating life through dance and music
18	Saturday	
19	Sunday	End of Rhythm of Life : Celebrating life through dance and music
20	Monday	<ol style="list-style-type: none"> 1. Last date for registration of examination at departments (without fine) - II semester M.Sc Photonics & 5 year LL.B courses 2. Tentative date for the publication of results - I & VII semesters B.Tech General including B.Tech Marine Engineering
21	Tuesday	<ol style="list-style-type: none"> 1. Last Date for registration of examination at respective exam centres (without fine) - VI & VIII semester B.Tech General including B.Tech Marine Engineering 2. Last date for registration of examination at departments (with fine) - IV, VI & VIII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
22	Wednesday	
23	Thursday	

24	Friday	Last date for registration of examination at respective examination centres (with fine) – II, IV, VI & VIII semesters B.F.Sc (Nautical Science)
25	Saturday	Tentative date for the publication of results - III semester B.Tech General including B.Tech Marine Engineering
26	Sunday	
27	Monday	2nd internal of even semester
28	Tuesday	<p>1. Last date for submission of application forms with DCB statements and proof of remittance of fees to the University office by respective departments - IV, VI & VIII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, IV & X semesters M.Sc Photonics and 5 year LL.B courses</p> <p>2. Tentative date for the publication of results - I semester M.Sc Photonics and 5 year LL.B courses, I semester B.F.Sc(Nautical Science), 1st 3 year LL.B (2016 admission)</p> <p>3. Last date for submission of application forms with DCB statements and proof of remittance of fees to the University office – II, IV, VI & VIII semesters B.F.Sc (Nautical Science)</p>

ACADEMIC CALENDAR 2016-2017		
March 2017		
Date	Day	Remarks
1	Wednesday	Last date for registration of examination at respective examination centres (without fine) - II, IV, VI semesters PG courses
2	Thursday	<p>1. Last date for registration of examination at respective examination centres (with fine) - VI & VIII semesters B.Tech General including B.Tech Marine Engineering</p> <p>2. Last date for registration of examination at respective exam centres (without fine) - 2nd 3 year LL.B (2013 admission) and 3rd 3 year LL.B (2012 admission)</p>
3	Friday	
4	Saturday	
5	Sunday	
6	Monday	Last date for submission of application forms with DCB statements and proof of remittance of fees to the University Office by respective departments - II, VI & VIII semesters M.Sc Photonics and 5 year LL.B courses
7	Tuesday	
8	Wednesday	Women's Day - special programmes to give significant role to women and girl child, highlighting issues like status of women in society and the need for gender justice/Identification of new adopted village/slum area by the NSS units/ Starting of advance preparations for literacy drive
9	Thursday	Last date for registration of examination at respective examination centres (with fine) - 2nd 3 year LL.B (2013 admission) & 3rd 3 year LL.B (2012 admission)
10	Friday	<p>1. Last date for registration of examination at respective examination centres (with fine) - II, IV, VI semesters PG courses</p> <p>2. Tentative date for the publication of results - V semester B.Tech General including B.Tech Marine Engineering</p>
11	Saturday	
12	Sunday	
13	Monday	Last date for submission of application forms with DCB statements and proof of remittance of fees by exam centres to the University Office - 2nd 3 year LL.B (2013 admission) and 3rd 3 year LL.B (2012 admission)
14	Tuesday	
15	Wednesday	<p>1. Last date for submission of application forms with DCB statements and proof of remittance of fees by exam centres to the University Office - II, IV, VI semesters PG courses/VI, VIII semesters B.Tech General including B.Tech Marine Engineering</p> <p>2. Last date for registration of examination at departments (without fine) - II semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation</p>
16	Thursday	
17	Friday	

18	Saturday	Submission of Attendance - IV, VI semesters PG courses
19	Sunday	
20	Monday	Submission of Attendance - VI, VIII semesters B.Tech General including B.Tech Marine Engineering, IV, VI & VIII semesters B.Tech NA&SB, B. Tech PS&RT and B.Tech Instrumentation, VIII & X semesters M.Sc Photonics & 5 year LL.B courses, IV, VI & VIII semesters B.F.Sc (Nautical Science)
21	Tuesday	Last date for registration of examination at departments (with fine) - II semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
22	Wednesday	
23	Thursday	
24	Friday	Submission of Internal Marks - VI, VIII semesters B.Tech General including B.Tech Marine Engineering/VIII semester B.F.Sc(Nautical Science)
25	Saturday	<ol style="list-style-type: none"> 1. Submission of Attendance - II semester PG courses 2. Last Date for registration of examination at respective exam centres (without fine) - II semester B.Tech General including B.Tech Marine Engineering
26	Sunday	
27	Monday	<ol style="list-style-type: none"> 1. Submission of Internal Marks (including lab marks) - IV, VI & VIII semesters B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation/VIII & X semester M.Sc Photonics and 5 year LL.B courses/IV & VI semesters B.F.Sc(Nautical Science) 2. Submission of Attendance - VI semester M.Sc Photonics & 5 year LL.B courses
28	Tuesday	<ol style="list-style-type: none"> 1. Submission of Internal Marks - IV, VI semesters PG courses 2. Last date for submission of application forms with DCB statements and proof of remittance of fees to the University Office by respective departments - II semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
29	Wednesday	
30	Thursday	<ol style="list-style-type: none"> 1. Submission of Internal Marks - II semester PG courses 2. Last Date for registration of examination at respective exam centres (without fine) - IV semester B.Tech General including B.Tech Marine Engineering
31	Friday	<ol style="list-style-type: none"> 1. Submission of Attendance - IV semester M.Sc Photonics & 5 year LL.B courses/3rd 3 year LL.B (2012 admission) 2. Submission of Internal Marks - VI semester M.Sc Photonics and 5 year LL.B courses 3. Closing of even semester

ACADEMIC CALENDAR 2016-2017		
April 2017		
Date	Day	Remarks
1	Saturday	
2	Sunday	
3	Monday	Commencement of exams/Submission of Dissertation -VIII semester B.Tech General including B.Tech Marine Engineering, VIII semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation
4	Tuesday	
5	Wednesday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - VI semester PG courses, VI semester B.Tech General including B.Tech Marine Engineering, VIII semester B.F.Sc(Nautical Science) 2. Last date for registration of examination at respective examination centres (with fine) - II semester B.Tech General including B.Tech Marine Engineering 3. Submission of Internal Marks - IV semester M.Sc Photonics and 5 year LL.B courses, 3rd 3 year LL.B (2012 admission)
6	Thursday	Commencement of exams/Submission of Dissertation - VI semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation, VI semester B.F.Sc(Nautical Science)
7	Friday	Last date for registration of examination at respective examination centres (with fine) - IV semester B.Tech General including B.Tech Marine Engineering
8	Saturday	
9	Sunday	
10	Monday	<ol style="list-style-type: none"> 1. Commencement of exams/Submission of Dissertation - VI semester M.Sc Photonics & 5 year LL.B courses, VIII & X semester M.Sc Photonics & 5 year LL.B courses 2. Last date for submission of application forms, DCB statements with fees by exam centres to the University Office - IV semester B.Tech General including B.Tech Marine Engineering
11	Tuesday	
12	Wednesday	Commencement of exams/Submission of Dissertation - IV semester PG courses
13	Thursday	
14	Friday	Submission of Attendance - II semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, II semester M.Sc Photonics and 5 year LL.B courses, II semester B.F.Sc (Nautical Science), 2nd 3 year LL.B (2013 admission)
15	Saturday	<ol style="list-style-type: none"> 1. Submission of Attendance - IV semester B.Tech General including B.Tech Marine Engineering 2. Submission of Internal Marks - IV semester B.Tech General including B.Tech Marine Engineering
16	Sunday	

17	Monday	1. Commencement of exams/Submission of Dissertation - 3rd 3 year LL.B (2012 admission) 2. Last date for submission of application forms, DCB statements with fees by exam centres to the University Office - II semester B.Tech General including B.Tech Marine Engineering
18	Tuesday	Commencement of exams/Submission of Dissertation - IV semester M.Sc Photonics & 5 year LL.B courses
19	Wednesday	1. Commencement of exams/Submission of Dissertation - II semester PG courses 2. Submission of Internal marks (including lab marks) - II semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, II semester M.Sc Photonics and 5 year LL.B courses, II semester B.F.Sc(Nautical Science), 2nd 3 year LL.B (2013 admission)
20	Thursday	Commencement of exams - II semester M.Voc (2nd batch)
21	Friday	
22	Saturday	
23	Sunday	
24	Monday	Commencement of exams/Submission of Dissertation – IV semester B.F.Sc(Nautical Science), IV semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation
25	Tuesday	1. Submission of Attendance - II semester B.Tech General including B.Tech Marine Engineering 2. Submission of Internal Marks - II semester B.Tech General including B.Tech Marine Engineering
26	Wednesday	
27	Thursday	
28	Friday	Last date of course registration
29	Saturday	
30	Sunday	

ACADEMIC CALENDAR 2016-2017

May 2017

Date	Day	Remarks
1	Monday	Starting of Summer Vacation/May Day
2	Tuesday	Commencement of exams/Submission of Dissertation - IV semester B.Tech General including B.Tech Marine Engineering
3	Wednesday	
4	Thursday	Commencement of exams/Submission of Dissertation - II semester B.Tech General including B.Tech Marine Engineering, II semester B.F.Sc(Nautical Science), III semester M.Voc (1st batch)
5	Friday	1. Commencement of exams/Submission of Dissertation - II semester M.Sc Photonics and 5 year LL.B courses 2. Tentative date for publication of result, issue of mark list/provisional certificate - VI semester PG courses
6	Saturday	
7	Sunday	
8	Monday	Commencement of exams/Submission of Dissertation - II semester B.Tech NA&SB, B.Tech PS&RT, B.Tech Instrumentation, 2nd 3 year LL.B (2013 admission)
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	Tentative date for publication of result, issue of mark list/provisional certificate - IV semester PG courses
13	Saturday	
14	Sunday	
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	Tentative date for publication of result, issue of mark list/provisional certificate - II semester PG courses
20	Saturday	
21	Sunday	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	Sunday	
29	Monday	
30	Tuesday	Tentative date for the publication of results - X semester M.Sc Photonics and 5 year LL.B courses
31	Wednesday	

ACADEMIC CALENDAR 2016-2017

June 2017

Date	Day	Remarks
1	Thursday	
2	Friday	Tentative date for the publication of results - VIII semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation, VIII semester B.F.Sc(Nautical Science)
3	Saturday	
4	Sunday	
5	Monday	Tentative date for the publication of results - VI semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation
6	Tuesday	Tentative date for the publication of results – VI semester B.F.Sc(Nautical Science)
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	Sunday	
12	Monday	
13	Tuesday	
14	Wednesday	
15	Thursday	Tentative date for the publication of results - VIII semester B.Tech General including B.Tech Marine Engineering
16	Friday	Tentative date for the publication of results - VI & VIII semester M.Sc Photonics and 5 year LL.B courses
17	Saturday	
18	Sunday	
19	Monday	
20	Tuesday	
21	Wednesday	Tentative date for the publication of results - IV semester M.Sc Photonics and 5 year LL.B courses/IV semester B.F.Sc(Nautical Science)
22	Thursday	
23	Friday	
24	Saturday	
25	Sunday	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	Tentative date for the publication of results - IV semester B.Tech NA&SB, B.Tech PS&RT and B.Tech Instrumentation

FACULTY OF TECHNOLOGY

DEPARTMENT OF SHIP TECHNOLOGY

M. Tech Computer Aided Structural Analysis & Design

Semester I

Course Code	Course	C/E	Credits
DST 3101	Advanced Engineering Mathematics	C	4
DST 3102	Computer Aided Design in offshore Engineering	C	4
DST 3103	Advanced Structural Analysis	C	4
DST 3104	Elective I	E	4
DST 3105	Elective II	E	4

Electives

1 Marine Hydrodynamics	2 Marine Corrosion and Prevention
3 Application of Stochastic Process Theory in Ocean Engineering	4 Stability of Structures
5 Fracture Mechanics	6 Marine Pollution and its effect
7 Pollution Control Techniques	8 Advanced Joining Techniques

Semester II

Course Code	Course	C/E	Credits
DST 3201	Dynamics of Structures	C	4
DST 3202	Finite Element Methods Applied to Offshore Engineering	C	4
DST 3203	Elective III	E	4
DST 3204	Elective IV	E	4
DST 3205	Elective V	E	4

Electives

1 Ocean Waves and Effects	2 Analysis of Special Structures
3 Design of Offshore Structures	4 Fatigue problems in Ships and Marine Structures
5 Computer Applications in Ship Manoeuvring	

Semester III

Course Code	Course	C/E	Credits
DST 3301	Project Progress Evaluation	C	18

Semester IV

Course Code	Course	C/E	Credits
DST 3401	Project Dissertation Evaluation and Viva Voce	C	18

Details of Faculty

Sl. No.	Name & Designation	Specialisation	Communication
1.	Dr. C.G. Nandakumar Associate Professor and Head	Structural Analysis Finite Element Method	nandu@cusat.ac.in 9447463475
2.	Dr. S.K. Pyarilal Associate Professor	Ship Design	9846022253
3.	Dr. K. Roby Associate Professor	Naval Architecture Computer Science	roby@cusat.ac.in 0484 - 2575410
4.	Mrs. Mariamma Chacko Associate Professor	Electrical Engineering and Electronics	mariamma@cusat.ac.in 0484-2577226
5.	Dr. K. Sivaprasad Associate Professor	Ship Building Technology	sivaprasad@cusat.ac.in 0484 -2575601
6.	Dr. A. Mathizhagan Associate Professor	Material Science and Corrosion Engineering	alagan@cusat.ac.in 9447434901
7.	Dr. C.B. Sudheer Assistant Professor	Production Engineering, Ship Production, CAD/CAM	sudheer@cusat.ac.in 0484 - 2396194
8.	Dr. Rajesh P. Nair Assistant Professor	Finite Element Method impact analysis	rajeshpnair@cusat.ac.in 9744297106
9.	Dr. Manoj T. Issac Assistant Professor	Hydrodynamics vehicles of underwater	m.issac@gmail.com 9495519287

Abbreviations

MO	M Sc Oceanography
MMGP	M Sc Marine Geophysics
MM	M Sc Meteorology
MP	M Sc Physics
OTS	M Tech Ocean Technology Students
BT	B Tech Civil or Environmental Sciences
ES	M Sc Environmental Sciences
MG	M Sc Marine Geology
ME	M Sc Electronics
BTNASB	B Tech Naval Architecture and Ship Technology
BTME	B Tech Mechanical Engineering
MTAS	M Tech Atmospheric Sciences Students
MTCASAD	M Tech Computer Aided Structural Analysis and Design Students
MTMB	M Tech Marine Biotechnology Students
MTCEGE	M Tech Civil Engineering- Geotechnical Engineering Students
MTHSEM	M Tech Health, Safety and Environment Management Students

PROFORMA – A

(For Student Registration)

School / Department

of

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Registration Form

Name of Teacher :

Course Code :

Name of the Course :

Number of Credits :

Sl. No.	Name of Student	Semester C/E	Programme Department of study	Signature of Student

PROFORMA – B

School / Department of

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

I / II / III / IV Semester M.Sc / M.Tech /

Name of Student :

Sl. No.	Course Code	C/E	Name of Course	No. of Credits	Name of the Teacher & Department	Signature of Teacher

Number of Credits (Core) :

Number of Credits (Elective) :

Total Credits :

Student Advisor