SES COLLEGE
SREEKANDAPURAM EDUCATIONAL SOCIETY
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Accredited by NAAC at 'B' Grade
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Criterion 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Dr. DOMINIC THOMAS
Principal
S.E.S. COLLEGE
SREEKANDAPURAM

KANNUR UNIVERSITY
(Abstract)

BA English (Language & Literature) Programme under Choice Based Credit and Semester System – Revised Scheme , Syllabi & Pattern of question papers for Core/Open Courses - Implemented w.e.f 2014 Admission - Orders issued.

ACADEMIC BRANCH

U.O.No.Acad/C3/3951/2014(1) Dated, Civil Station.P.O, 03-05-2014

Read:1.U.O No.Acad/C2/2232/2014 , dated 14.3.2014
2.Minutes of the meeting of the Board of Studies in English (UG) held on 18.03.2014
3.Minutes of the meeting of Faculty of Language & Literature held on 26-3-2014
4. Letter dated 05.04.2014 from the Chairman, Board of Studies in English (UG)

ORDER

1.Revised Regulations for U.G Programmes under Choice Based Credit and Semester System were implemented in the University with effect from 2014 admission, as per paper read (1) above.

2. As per paper read (2) above, the scheme, syllabus and pattern of question papers for core/open courses in B.A English Language & Literature programme were finalized and recommended for implementation by the Board of Studies in English (U.G).

3.As per paper read (3) above, the meeting of Faculty of Language & Literature, held on 26.3.2014 has approved the scheme, syllabus and pattern of question papers for B.A English (Language & Literature) Programme to be implemented with effect from 2014 admission.

4. As per the paper read (4) above, the Chairman, Board of Studies in English (UG) has forwarded the finalized copy of the Scheme , Syllabi & Pattern of question Papers for Core/Open Courses of B.A English (Language & Literature) Programme for implementation with effect from 2014 admission.

5.The Vice-Chancellor, after considering the matter in detail, and in exercise of the powers of the Academic Council, as per Section 11 (1) of Kannur University Act, 1996 and all other enabling provisions read together with, has accorded sanction to implement the revised Scheme , Syllabi & Pattern of question Papers for Core/Open Courses of B.A English(Language & Literature) Programme under Choice Based Credit and Semester System with effect from 2014 admission.

6. Orders are therefore issued implementing the revised Scheme , Syllabi & Pattern of Question Papers for Core/Open Courses of B.A English (Language & Literature) Programme under Choice Based Credit and Semester System with effect from 2014 admission, subject to report to the Academic Council.

7. The implemented Scheme, Syllabi & Pattern of Question Papers are appended.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)

For Registrar

To:

The Principals of Affiliated Colleges

Copy to:

1.The Examination Branch
2. The Chairman, Board of Studies in English (UG)
3. PS to VC/PA to PVC/PA to Registrar/PA to CE
4. DR/AR-I (Academic).
5. SF/DF/FC

Forwarded /By Order

SECTION OFFICER

- For more details log on to www kannur university.ac.in

KANNUR UNIVERSITY

NEW CURRICULUM FOR UG PROGRAMME IN ENGLISH LANGUAGE AND LITERATURE

UNDERGRADUATE BOARD OF STUDIES IN ENGLISH

SYLLABI FOR CORE COURSES IN ENGLISH LANGUAGE AND LITERATURE(2014 ADMISSION ONWARDS)

English Core Courses

General Objectives

English Literature is a product of historical circumstances. There is a complex interaction between literature and its contexts. Literature functions as a critical reflection on people and society in history and on the ways in which people make historical sense of their lives. It is the aim of the course to expand the relation between texts and contexts, and provide a firm foundation for historically contextualized literary study. In the general organization of texts and modules the Board of Studies has been guided by a pragmatic sense of the general requirements of undergraduate studies in English and the kinds of literary traditions, periods and texts that are widely taught and studied in universities and colleges around the world.

****

Duration: Six semesters of six months each

Scheme:

The Programme comprises of sixteen Courcesof which fifteen are Core Cources, including Project and the remaining one is an Elective. In addition, there is an Open Course. The distribution is as follows:

Semester 1: One Core Course, one Complementary Course and three Common Courses

Semester 2: One Core Course, one Complementary Course and three Common Courses

Semester 3:Two Core Courses, one Complementary Course and two Common Courses

Semester4: Two Core Courses, one Complementary Course and two Common Courses

Semester5: Four Core Courses, one Open Course

Semester6: Six Core Courses including an Elective and a Project

Each Course (excluding Open Course and Project) carries 50 marks each (External 40, Internal 10)

Project carries 25 marks (External 20, Internal 5)

Open Course carries 25 marks (External 20, Internal 5)

Total marks for Core, Complementary and Open Courses will be 1000

(Total marks for the entire Programme including Common Courses will be 1500)

1. Table of Core Course

No	Course Code	Title of Course	Hours/Week	Credit	Semester
1	1B01ENG	History of English Language and Literature	6	4	1
2	2B02ENG	Studies in Prose	6	4	2
3	3B03ENG	Linguistics	5	4	3
4	3B04ENG	English in the Internet Era	4	4	3
5	4B05ENG	Studies in Poetry	4	4	4
6	4B06ENG	Literary Criticism	5	5	4
7	5B07ENG	Modern Critical Theory	5	5	5
8	5B08ENG	Drama: Theory and Literature	5	4	5
9	5B09ENG	Studies in Fiction	5	4	5
10	5B10ENG	Women's Writing	5	4	5
11	5B11ENG	Project	3	2	5
12	6B12ENG	Malayalam Literature in Translation	5	4	6
13	6B13ENG	New Literatures in English	5	4	6
14	6B14ENG	Indian Writing in English	5	4	6
15	6B15ENG	Film Studies	5	4	6
16	6B16ENG	Elective 01, 02, 03	5	4	6

2. Table of Electives

No	Course Code	Title of Course	Hours/Week	Credit	Semester
1	6B16(1)ENG	World Literature in Translation	5	4	6
2	6B16(2)ENG	Indian Writing in Translation	5	4	6
3	6B16(3)ENG	Writing for Media	5	4	6

3. Open Course

No	Course Code	Title of Course	Hours/Week	Credit	Semester
1	5D01(1)ENG	English for Competitive Examination	2	2	5

Distribution of Marks for BA English Language and Literature

1.	Total Marks for Common Courses	1 to 6 (English)	6x50=300
2.	Total Marks for Additional Language Courses	1 to 4 (Languages)	4x50=200
3.	Total Marks for Complementary Courses	1 to 4	4x50=200
4.	Total Marks for Core Courses	1 to 10&12 to 16	15x50=750
5.	Project	1	1x25=25
6.	Open Course	1	1x25=25
	Total (for the entire Programme)	**1500**	

Internal Assessment (CE)

(20% of the total marks in each Course are for Internal Assessment)

1.	Model Examination	5 marks (50%)
2.	Attendance	2.5 marks (25%)
3.	Assignment/Seminar/Viva	2.5 marks (25%)

(Attendance of each Course may be evaluated as follows)

90% and above	2.5 marks (100%)
85 to 89%	2 marks (80%)
80 to 84%	1.5 marks (60%)
75 to 79%	1 mark (40%)

(No marks for attendance below 75%)

Distribution of Credits for BA English Language and Literature

Semester	Common Courses			Core Courses						Complementary Courses	Open Course	Total
	English		II Lang									
1	4	3	4	4						4	-	19
2	4	3	4	4						4	-	19
3	4		4	4		4				4	-	20
4	4		4	4		5				4	-	21
5	-			5	4	4	4			-	2	19
6	-			2	4	4	4	4	4	-		22
Total	**22**		**16**	**64**						**16**	**2**	**120**

KANNUR UNIVERSITY

(Abstract)

B.A English Programme- Scheme of Core & Generic Elective Courses of the Programme and Syllabus and Pattern of Question Paper of the I[st] Semester of B.A English (Language and Literature) under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated Colleges with effect from **2019 Admission**- Implemented- Orders issued.

ACADEMIC BRANCH

No.Acad.C3/13219/2019 Dated: Civil Station P.O .26.06.2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated,10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O. No.Acad.C2/429/2017 Vol.II dated,03-06-2019.
4. The Minutes of the Meeting of the Board of Studies in English (UG), held on 14.06.2019
5. Scheme and Ist Semester Syllabus of B.A English (Language and Literature) Programme, Submitted by the Chairperson, Board of Studies in English (UG), dated: 22.06.2019

ORDER

1.A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG Programmes in Affiliated Colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision Processes such as conducting the meeting of various Boards of Studies, Workshops, & discussions.

3. The Revised Regulation for UG Programmes in Affiliated Colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. As per paper read (4) above, the Board of Studies in English (UG) finalized the Scheme of Core, & Generic Elective Courses ,Syllabus and Pattern of Question Papers of B.A English (Language and Literature) Programme, to be implemented with effect from 2019 Admission.

5. Subsequently, as per paper read (5) above, the Chairperson, Board of Studies in English (UG) , submitted the finalized copy of the Scheme of Core & Generic Elective Course and Syllabus and Pattern of Question Paper of the I[st] Semester of B.A English (Language and Literature) Programme, for implementation with effect from 2019 Admission.

...2

6. The Vice Chancellor, after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, accorded sanction to implement the Scheme of Core & Generic Elective Courses and Syllabus and Pattern of Question Papers of the I[st] Semester of B.A English (Language and Literature) Programme under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) in the Affiliated Colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme of Core & Generic Elective Courses and Syllabus and Pattern of Question Paper of the I[st] Semester of B.A English (Language and Literature) Programme, are uploaded in the University Website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR(ACADEMIC)
For REGISTRAR

To
The Principals of Colleges offering B.A English Programme

Copy to:- 1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in English (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I/ARII (Academic)
5. The Computer Programmer (for uploading in the website)
6. SF/DF/FC

Forwarded/By Order

SECTION OFFICER

For more details log on to www.kannuruniversity.ac.in

KANNUR UNIVERSITY

BOARD OF STUDIES IN ENGLISH (U.G.)

SYLLABUS OF CORE COURSES OF B.A ENGLISH LANGUAGE AND LITERATURE PROGRAMME AND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT AND SEMESTER SYSTEM

(2019 ADMISSION ONWARDS)

KANNUR UNIVERSITY
VISION AND MISSION STATEMENTS

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the ManandavadyTaluk of Wayanad Revenue District.

Mission:

- To produce anddisseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher education and to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

Kannur University

Programme Outcomes (PO)

PO 1.Critical Thinking:

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.
1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.
2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.
2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3.Effective Communication:

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language
3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.
3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.
4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

Programme Specific Outcomes for BA in English Language and Literature

PSO 1.Understand the historical contexts behind the origin and development of English literature with a special focus on various movements and the important works belonging to such movements.

PSO 2. Understand the current methodological issues in the study of literature and apply various reading strategies employed to selected literary as well as cultural texts.

PSO 3. Understand and apply the extended meaning of "English Literature" to various post-colonial and other writings in English.

PSO 4. Understand the basics of disciplines like Film Studies, Culture Studies, Fine Arts, Women's Writing, Dalit Writings, Post-colonial writing, Indian writing in English, Malayalam Literature and Literatures in Translation.

PSO 5. Understand and appreciate the interdisciplinary links that literary studies have with disciplines like Philosophy, History, Political Science, Sociology, Anthropology and the Sciences.

KANNUR UNIVERSITY

B.A ENGLISH PROGRAMME PROGRAMME

COURSE AND CREDIT DISTRIBUTION STATEMENT

Courses	No of Courses		Credit	
English Common Course (ECC)		6		22
Additional Common Course (ACC)		4		16
Core Course	15	16	60	64
Discipline Elective Core Course (DSEC)	1		4	
Complimentary Elective Course (CEC)		4		16
Generic Elective Course (GEC)		2		2
Total		**32**		**120**

KANNUR UNIVERSITY

B.A ENGLISH PROGRAMME PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

Semester	Course Title	Credits	Hours per week	Marks		
				CE	ESE	TOTAL
I	English Common Course–I	4	5	10	40	50
	English Common Course-II	3	4	10	40	50
	Additional Common Course-I	4	4	10	40	50
	Complementary Elective Course-1	4	6	10	40	50
	Core Course-I- Malayalam Literature in English Translation	5	6	10	40	50
II	English Common Course-III	4	5	10	40	50
	English Common Course-IV	3	4	10	40	50

	Additional Common Course-II	4	4	10	40	50
	Complementary Elective Course-II	4	6	10	40	50
	Core Course-II- Academic Writing, Methodology and Research Project	5	6	10	40	50
III	English Common Course-IV	4	5	10	40	50
	Additional Common Course-III	4	5	10	40	50
	Complementary Elective Course-III	4	6	10	40	50
	Core Course III- Old English to Medieval English Literature (500-1500)	3	4	10	40	50
	Core Course-IV- Renaissance and Restoration Literatures (1485-1780)	4	5	10	40	50
IV	English Common Course VI	4	5	10	40	50
	Additional Common Course-IV	4	5	10	40	50
	Complementary Elective Course-IV	4	6	10	40	50
	Core Course-V- The Romantic Period (1780-1832)	4	5	10	40	50
	Core Course VI- The Victorian Period (1832-1901)	3	4	10	40	50
V	Core Course VII- The Early Twentieth Century ((1901-1939)	4	6	10	40	50
	Core Course VIII- The Late Twentieth and Twenty-First Centuries(1939-2018)	5	6	10	40	50
	Core Course IX- Post colonial Literatures in English	5	6	10	40	50
	Core Course X- Linguistics	4	5	10	40	50

	Core Course XI- Project	2	1	5	20	25
	Generic Elective Course	2	2	5	20	25
VI	Core Course XII - Critical Theory	5	6	10	40	50
	Core Course XIII- Women's Writing	4	5	10	40	50
	Core Course XIV- Indian Writing in English	3	4	10	40	50
	Core Course XV- Film Studies	4	5	10	40	50
	Core Course XVI- Discipline Specific Elective	4	4	10	40	50
TOTAL		**120**	**150**	**-**	**-**	**1500**

TOTAL CREDIT (Sum of total credits of all semester): 120

TOTAL MARKS (Sum of total marks of all semester): 1500

(2019 ADMISSION ONWARDS)

Core Courses in English Language and Literature
Programme Specific Outcomes for BA in English Language and Literature

PSO 1.Understand the historical contexts behind the origin and development of English literature with a special focus on various movements and the important works belonging to such movements.

PSO 2. Understand the current methodological issues in the study of literature and apply various reading strategies employed to selected literary as well as cultural texts.

PSO 3. Understand and apply the extended meaning of "English Literature" to various post-colonial and other writings in English.

PSO 4. Understand the basics of disciplines like Film Studies, Culture Studies, Fine Arts, Women's Writing, Dalit Writings, Post-colonial writing, Indian writing in English, Malayalam Literature and Literatures in Translation.

PSO 5. Understand and appreciate the interdisciplinary links that literary studies have with disciplines like Philosophy, History, Political Science, Sociology, Anthropology and the Sciences.

B.A. ENGLISH LANGUAGE AND LITERATURE--CORE COURSES
WORK AND CREDIT DISTRIBUTION
PART -1 (CORE COURSES)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
1B01ENG	Malayalam Literature in English Translation	I	6	5	3
2B02ENG	Academic Writing, Methodology and Research Project	II	6	5	3
3B03ENG	Old English to Medieval English Literature (500-1500)	III	4	3	3
3B04ENG	Renaissance and Restoration Literatures (1485-1780)	III	5	4	3
4B05ENG	The Romantic Period (1780-1832)	IV	5	4	3
4B06ENG	The Victorian Period (1832-1901)	IV	4	3	3
5B07ENG	The Early Twentieth Century ((1901-1939)	V	6	4	3
5B08ENG	The Late Twentieth and Twenty-First Centuries(1939-2018)	V	6	5	3
5B09ENG	Postcolonial Literatures in English	V	6	5	3
5B10ENG	Linguistics	V	5	4	3
6B11ENG	Project	VI	1	2	--
6B12ENG	Critical Theory	VI	6	5	3
6B13ENG	Women's Writing	VI	5	4	3
6B14ENG	Indian Writing in English	VI	4	3	3
6B15ENG	Film Studies	VI	5	4	3
6B16ENG	Discipline Specific Elective	VI	4	4	3
TOTAL			**-**	**64**	

KANNUR UNIVERSITY
(Abstract)

B.Com Programme- Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

ACADEMIC BRANCH

No.Acad.C1/12281/2019 Dated, Civil Station P.O.,20.06.2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated.10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O.No.Acad.C2/429/2017 Vol.II dated.03-06-2019.
4. The Minutes of the Meeting of the Board of Studies in Commerce (UG) held on 07.06.2019
5. Syllabus of B.Com.Programme, submitted by the Chairperson, Board of Studies in Commerce (UG), dated 12.06.2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2.The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed different phases of Syllabus Revision processes such as conducting the meetings of various Boards of Studies and Workshops, discussions etc.

3.The Revised Regulations for UG programmes in Affiliated colleges under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) were implemented with effect from 2019 Admission as per paper read (3) above.

P.T.O

4.As per paper read (4) above, the Board of Studies in Commerce (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core, Complementary Elective & Generic Elective Course of B.Com Programme to be implemented with effect from 2019 Admission.

5.As per paper read (5) above, the Chairperson, Board of Studies in Commerce (UG) has submitted the final copy of the Scheme, Syllabus & Pattern of Question Papers of B. Com Programme for implementation with effect from 2019 Admission.

6.The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(i) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper(Core/Complementary Elective/Generic Elective Course) for B.Com programme under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting before the Academic Council.

7.The Scheme, Syllabus & Pattern of Question Paper of B.Com.Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR(ACADEMIC)
for REGISTRAR

To
The Principals of Colleges offering B.Com Programme

Copy to:-
1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Commerce (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer(for uploading in the website)
6. SF/DF/FC

KANNUR UNIVERSITY * CIVIL STATION P.O. KANNUR Pin-670 002 * THAVAKKARA *

Forwarded/By Order

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES, COMMERCE (UG)

SYLLABUS FOR

CORE COURSES, GENERAL AWARENESS COURSES,

COMPLEMENTARY ELECTIVE COURSES

FOR B.COM DEGREE PROGRAMME

AND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT SEMESTER SYSTEM

(2019 ADMISSION ONWARDS)

KANNUR UNIVERSITY

VISION AND MISSION

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady Taluk of Wayanad Revenue District.

Mission:

- To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher educationand to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY

PROGRAMME OUTCOMES (PO)

PO 1.Critical Thinking:

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.

1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.

1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.

2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.

2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3.Effective Communication:

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language

3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.

3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.

4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.

4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

INTRODUCTION

The Board of Studies of Commerce (UG) as per the direction of Kannur University has decided to introduce outcome based course syllabus for the undergraduate Programme in commerce with effect from the academic year 2019-20. The process of revising and restructuring the syllabus was undertaken in compliance with the national education policy of the University Grants Commission, the directions of the Kerala State Higher Education Council and Kannur University. This revised syllabus is the result of a series of meetings of the board of studies and workshop of college teachers conducted for this purpose. Suggestions and recommendations of scholars, teachers, students and other eminent persons in the area of commerce were taken in to consideration while drafting the new syllabus. Due care has been taken to make the new curriculum up to date, pertinent for the current scenario and in tune with the industrial requirements

I express my sincere gratitude to all members of the Board of Studies of commerce (UG), all scholars and faculty members who helped to fulfill this task.

Dr. RAJESH KUMAR .E. R
CHAIRMAN
Board of Studies, Commerce (UG)

KANNUR UNIVERSITY

PROGRAMME SPECIFIC OUTCOME OF B.COM DEGREE

After the successful completion of the B.Com Degree Pragramme, the students shall be able to;

PSO 1:

Understand the concepts and techniques of commerce and its application in business environment

PSO 2:

Conceive the ideas on entrepreneurship and develop the skills for setting up and management of business organizations

PSO 3:

Develop the skills and abilities to become competent and competitive in the business world

PSO 4:

Develop the competency to take wise decisions at personal and professional level

PSO 5:

Appraise the impact of other disciplines on the working of business

INDEX

KANNUR UNIVERSITY

B.COM DEGREE PROGRAMME

COURSE AND CREDIT DISTRIBUTION STATEMENT

Courses	**No of Courses**		**Credit**	
English Common Course (ECC)		4		14
Additional Common Course (ACC)		2		8
Core Courses:				
Discipline Specific Core Course (DSCC)	13	17	48	64
Discipline Elective Core Course (DECC)	4		16	
General Awareness Course (GAC)		4		16
Complimentary Elective Course (CEC)		4		16
Generic Elective Course (GEC)		1		2
Total		**32**		**120**

WORK AND CREDIT DISTRIBUTION STATEMENT

Semester	**Course Title**	**Type of Course**	**Credits**	**Hours per week**
I	English Common Course I	ECC	4	5
	English Common Course II	ECC	3	4
	Additional Common Course I	ACC	4	5
	Management Concepts and Principles (1B01 COM)	DSCC	4	5
	Business Statistics and Basic Numerical Skills(1A11 COM)	GAC	4	6
	TOTAL		**19**	**25**
II	English Common Course III	ECC	4	5
	English Common Course IV	ECC	3	4
	Additional Common Course II	ACC	4	5
	Functional Applications of Management (2B02 COM)	DSCC	4	5
	Quantitative Techniques for Business Decisions (2C01 COM)	CEC	4	6
	TOTAL		**19**	**25**
III	Entrepreneurship development (3A12 COM)	GAC	4	5
	Advanced Accounting (3B03 COM)	DSCC	4	6
	Course I from Elective Stream I/II/III/IV (3B04 COM)	DECC	4	5
	Business Regulatory Framework (3C02 COM)	CEC	4	4
	Business Economics (3C03 COM)	CEC	4	5
	TOTAL		**20**	**25**

Semester	Course Title	Type of Course	Credits	Hours per week
IV	General Informatics Skills (T+P) (4A13 COM)	GAC	4(3+1)	5(3+2)
	Environmental Studies and Disaster Management (4A14 COM)	GAC	4	5
	Corporate Accounting (4B05 COM)	DSCC	4	6
	Course II from Elective Stream I/II/III/IV (4B06 COM)	DECC	4	5
	Corporate Law and Business Regulations (4C04 COM)	CEC	4	4
	TOTAL		**20**	**25**
V	Business Research Methodology (5B07 COM)	DSCC	3	4
	Income Tax law and Practice (5B08 COM)	DSCC	4	5
	Cost Accounting (5B09 COM)	DSCC	4	5
	Banking Principles and Operations (5B10 COM)	DSCC	4	5
	Course III from Elective Stream I/II/III/IV (5B11 COM)	DECC	4	4
	Generic Elective Course (5D-- COM)	GEC	2	2
	TOTAL		**21**	**25**
VI	Financial Markets and Services (6B12 COM)	DSCC	3	4
	Management Accounting (6B13 COM)	DSCC	4	5
	Auditing and Corporate Governance (6B14 COM)	DSCC	4	5
	Income Tax and GST (6B15 COM)	DSCC	4	5
	Course IV from Elective Stream I/II/III/IV (6B16 COM)	DECC	4	4
	Project (6B17 COM)	DSCC	2	2
	TOTAL		**21**	**25**

Industrial Visit

The forth/fifth semester students of regular colleges shall be taken under the supervision of faculty members to business or industrial units so as to enable them to have a direct knowledge about location, layout, managerial function, HR management or any area of

study. The study tour to an industrial/business unit will form a part of the curriculum. The report submitted by the students in this respect shall be considered as one of the assignment of any one course in the concerned semester.

PART A:

B.COM CORE COURSES

WORK AND CREDIT DISTRIBUTION

(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HRS
1B01 COM	Management Concepts and Principles	I	5	4	3
2B02 COM	Functional Applications of Management	II	5	4	3
3B03 COM	Advanced Accounting	III	6	4	3
3B04 COM	Elective Course I	III	5	4	3
4B05 COM	Corporate Accounting	IV	6	4	3
4B06 COM	Elective Course II	IV	5	4	3
5B07 COM	Business Research Methodology	V	4	3	3
5B08 COM	Income Tax law and Practice	V	5	4	3
5B09 COM	Cost Accounting	V	5	4	3
5B10 COM	Banking Principles and Operations	V	5	4	3
5B11 COM	Elective Course III	V	4	4	3
6B12 COM	Financial Markets and Services	VI	4	3	3
6B13 COM	Management Accounting	VI	5	4	3
6B14 COM	Auditing and Corporate Governance	VI	5	4	3
6B15 COM	Income Tax and GST	VI	5	4	3
6B16 COM	Elective Course IV	VI	4	4	3
6B17 COM	Project	VI	2	2	-

ELECTIVE STREAMS

I - CO-OPERATION

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HRS
3B04 COM	Co-operative Principles	III	5	4	3
4B06 COM	Management of Co-operatives	IV	5	4	3
5B11 COM	Co-operative laws	V	4	4	3
6B16 COM	Co-operative Accounting and Legislations	VI	4	4	3

II - COMPUTER APPLICATION

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HRS
3B04 COM	Introduction to Computers and Networks	III	5	4	3
4B06 COM	Data Base management System	IV	5	4	3
5B11 COM	Information Technology for Business	V	4	4	3
6B16 COM	Accounting Packages - TALLY	VI	4	4	3

III - FINANCE

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HRS
3B04 COM	Financial Management	III	5	4	3
4B06 COM	Investment Management	IV	5	4	3
5B11 COM	Goods and Service Tax	V	4	4	3
6B16 COM	Corporate Tax Planning	VI	4	4	3

IV - MARKETING

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HRS
3B04 COM	Marketing Principles	III	5	4	3
4B06 COM	Consumer Behaviour	IV	5	4	3
5B11 COM	Promotion Management	V	4	4	3
6B16 COM	Market Research	VI	4	4	3

EVALUATION

ASSESSMENT	WEIGHTAGE	MARKS
EXTERNAL	4	40*
INTERNAL	1	10

***** 20 marks for theory and 20 marks for practical for courses having practical

CONTINUOUS INTERNAL ASSESSMENT

COMPONENT	WEIGHTAGE	MARKS	REMARKS
COMPONENT 1 Test paper	3	6	Minimum two test papers and mark should be awarded on the basis of average mark obtained by the student
COMPONENT 2 Assignments/ Seminar	2	4	Department should keep a record of the work done

Internal mark for test papers should be given as per the following criteria;

Average mark obtained in the test papers	Percentage of internal mark
80% and above	100%
60% to 79%	80%
40% to 59%	60%
20 % to 39%	40%
Below 20%	20%

KANNUR UNIVERSITY

(Abstract)

B.Com Programme -Scheme, Syllabus and Model Question Papers - Core/Complementary/Open Courses under Choice Based Credit Semester System-Implemented with effect from 2014 Admission - Orders issued.

ACADEMIC BRANCH

U.O No. Acad/C1/3544/2014 Dated, Civil Station (PO), 3 -05-2014

Read: 1. U.O.No.Acad/C2/2232/2014 dated 14/03/2014
2. Minutes of the meeting of the Board of Studies in Commerce UG held on 23-01-2014
3. Minutes of the meeting of the Faculties of Commerce and Management Studies held on 28-03-2014
4. Letter dated 28-03-2014 from the Chairman, Board of Studies Commerce UG

ORDER

1. The Revised Regulation for Choice based Credit Semester System have been implemented in this University with effect from 2014 admission vide paper read (1) above.

2. As per the paper read (2) above, . Board of Studies in Commerce UG finalized the Scheme, Syllabus and Model Question Papers for B.Com Programmes under Choice Based Credit Semester System with effect from 2014 admission.

3.As per the paper read (3) above the meeting of Faculty of Commerce and Management Studies approved the Scheme, Syllabus and Model question papers for B.Com Programme with effect from 2014 admission.

4. The Chairman, Board of Studies in Commerce UG, vide paper (4) read above, has forwarded the Scheme, Syllabus & Model Question Papers for B.Com Programme for implementation with effect from 2014 admission.

5. The Vice Chancellor after considering the matter in detail and in exercise of the powers of Academic Council conferred under section 11 (1) of Kannur University Act 1996 and all other enabling provisions read together with has accorded sanction to implement Scheme, Syllabus and Model Question Papers (Core/Complementary/Open Courses) for B.Com Programme under Choice Based Credit Semester System with effect from 2014 admission subject to report Academic Council.

6. Orders are, therefore, issued accordingly.

7. The Implemented Scheme, Syllabus and Model Question Papers are appended.

Sd/-
DEPUTY REGISTRAR (Academic)
For REGISTRAR

To,

The Principals of Colleges offering B.Com Programme.

5/5/14

(PTO)

1. The Examination Branch (through PA to CE)
2. PS to VC/PA to /PA to Registrar /
3. Chairman BOS Commerce UG
4. PA to CE
5. DR/AR I Academic
6. SF/DF/FC.

Forwarded/ by Order

Section Officer

For more details; log on www.kannur university.ac.in

SCHEME OF CORE COURSES
Total Marks 1500 - Total Credits 120 - Working Days/Semester 90 - WorkingHrs/Semester 450

Sl. No		Sem	Course Title	Type of Course	Mark	Credit	Hrs/ Week		Hrs/ Semester
1	1	I	**1B01 COM** Management Concepts &Principles	Core 1	50 (40+10)	2	3	**11**	54
2	2		**1B02 COM** Financial Accounting	Core 2	50 (40+10)	3	4		72
3	3		**1C01 COM** Bus. Statistics	Comp 1	50 (40+10)	3	4		72
4	1	II	**2B03 COM** Principles of Marketing	Core 3	50 (40+10)	2	3	**11**	54
5	2		**2B04 COM** Human Resource Management	Core 4	50 (40+10)	2	3		54
6	3		**2C02COM** Quantitative Tech. for Bus. Decision	Comp2	50 (40+10)	4	5		90
7	1	III	**3A11 COM** Disaster Management	Comm11	50 (40+10)	4	4	**25**	72
8	2		**3A12 COM** Numerical Skills for Business	Comm 12	50 (40+10)	4	4		72
9	3		**3C03 COM** Basics of Research Methodology	Comp 3	50 (40+10)	3	3		54
10	4		**3B05 COM** Advanced Accounting	Core 5	50 (40+10)	4	5		90
11	5		**3B06 COM** Optional I	Core 6	50 (40+10)	3	5		90
12	6		**3C04 COM** Business Regulatory Framework	Comp 4	50 (40+10)	3	4		72
13	1	IV	**4A13 COM** Entrepreneurship	Comm13	50 (40+10)	4	4	**25**	72
14	2		**4A14 COM** Environment Studies	Comm14	50 (40+10)	4	4		72
15	3		**4B07 COM** Income Tax Law & Practice I	Core 7	50 (40+10)	4	5		90
16	4		**4B08 COM** Informatics Skills (T+P)	Core 8	50 (20 + 20 +10)	3 (2+1)	4 (2+2)		72 (36+36)
17	5		**4B09 COM**/Optional II	Core 9	50 (40+10)	3	4		72

18	6		**4C05 COM** Corporate Law & Business Regulation	Comp 5	50 (40+10)	3	4		72
19	1	**V**	**5B10 COM** Cost Accounting	Core 10	50 (40+10)	4	5	**25**	90
20	2		**5B11 COM** Corporate Accounting	Core 11	50 (40+10)	4	5		90
21	3		**5B12 COM** Auditing	Core 12	50 (40+10)	3	4		72
22	4		**5B13 COM** Income Tax Law & Practice II	Core 13	50 (40+10)	4	5		90
23	5		**5B14 COM** Optional III	Core 14	50 (40+10)	3	4		72
24	6		**5D01 COM** Open Course	Open	50 (40+10)	2	2		36
25	1	**VI**	**6B15 COM** ManagementAccounting	Core 15	50 (40+10)	4	5	**25**	90
26	2		**6B16 COM** International Business	Core 16	50 (40+10)	4	5		90
27	3		**6B17 COM** Modern Banking	Core 17	50 (40+10)	4	5		90
28	4		**6B18 COM** Financial Markets&Services	Core 18	50 (40+10)	3	3		54
29	5		**6B19 COM** Optional IV	Core 19	50 (40+10)	3	5		90
30	6		**6B20 COM** Project	Project	50 (40+10)	2	2		36
*** Total**					1500 (1200+300)	*** 98**			

No. of Courses	**Type of Course**	**Credit**	**Mark**
4	Common	16	4x50= 200
5	Complementary	16	5x50= 250
19+1 Project	Core (62+2)	64	20x50= 1000
1	Open	2	1 X 50 =50
	*** Total**	*** 98**	**1500**
4	English	14	200
2	Additional Language	8	100
36	**Total**	**120**	**1800**

KANNUR UNIVERSITY
(Abstract)

BSc Chemistry / Polymer Chemistry/Bio Chemistry - Revised Scheme & Syllabi of Core, Complementary and Open Courses under Choice Based Credit Semester System for Under Graduate Programme - implemented with effect from ***2014 admission - Orders Issued.***

ACADEMIC BRANCH

No. Acad/C2/190/2014 **Dated, Civil Station P.O, 28- 05-2014**

Read: 1.U.O No. Acad/C2/2232/2014 dated 14-03-2014
2. Minutes of the meeting of the Board of Studies in Chemistry (UG) held on 01-01-2014.
3. Minutes of the meeting of the Faculty of Science held on 25-03-2014
4. Letter dated 29-03-2014 from the Chairman, BOS in Chemistry (UG).

ORDER

1. The Revised Regulations for UG Programmes under Choice based Credit Semester System were implemented in this University with effect from 2014 admission as per paper read (1) above.

2. As per paper read (2) above the Board of Studies in Chemistry finalized the Scheme , Syllabi & model Question Papers for Core, Complementary & open courses of BSc Chemistry/Polymer Chemistry/Bio Chemistry programmes to be implemented with effect from 2014 admission..

3. As per read (3) above the Faculty of Science held on 25-03-2014 approved Scheme, syllabi & model question papers for core/complementary & open courses of BSc Chemistry/Polymer Chemistry/Bio Chemistry programmes to be implemented with effect from 2014 admission.

4. The Chairman, Board of Studies in Chemistry (UG) vide paper read (4) above has submitted the finalized copy of Scheme, syllabi & Model question papers for core/complementary and open courses of BSc Chemistry/Polymer Chemistry/ Bio Chemistry programmes for implementation with effect from 2014 admission.

5. The Vice Chancellor, after examining the matter in detail, and in exercise of the powers of the Academic Council as per section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, has accorded sanction to implement the Revised scheme, syllabi& model question papers of BSc Chemistry/Polymer Chemistry/Bio Chemistry Programmes with effect from 2014 admission.

6. Orders, are therefore issued implementing the revised scheme, syllabi & model question papers for core, complementary& open courses of BSc Chemistry/Polymer Chemistry/Bio Chemistry programmes under CBCSS with effect from 2014 admission subject to report to Academic Council

7. Implemented revised Syllabi are appended.

SD/-
DEPUTY REGISTRAR **(ACADEMIC)**

FOR REGISTRAR

Contd.....2

To

1. The Principals of Affiliated Colleges offering B.Sc Chemistry/ Polymer Chemistry/ Bio Chemistry Programmes
2. The Examination Branch (through PA to CE)

Copy To:

1. The Chairman, BOS Chemistry (UG)
2. PS to VC/PA to PVC/PA to Registrar
3. DR/AR I Academic
4. Central Library
5. SF/DF/FC.

Approved/By Order

Section Officer

❖ ***For more details log on to www.kannur university.ac.in***

K A N NU R UN I V E R S I T Y

COURSE STRUCTURE

&

SYLLABUS

FOR

UNDERGRADUATE PROGRAMME

IN

C H E M I S T R Y

CORE &COMPLEMENTARY

COURSES

CHOICE BASED CREDIT SEMESTER SYSTEM

w.e.f 2014 ADMISSION

Curriculum

Introduction

The B Sc degree programme in Chemistry aims to provide the students with an in-depth understanding of Chemical Sciences. The syllabus has been designed to stimulate the interest of the students in Chemistry and to equip them with a potential to contribute to the academic and industrial requirements of the society. The new updated syllabus is based on an interdisciplinary approach and is infused with a new vigour and depth. Chemistry being an experimental science, due importance is given to the development of laboratory and instrumentation skills.

The main objective is to provide to the students a deep understanding of the basic concepts of chemical sciences by acquiring the knowledge of terms, facts, concepts, processes, techniques and principles of the subject. It attempts to equip the students to cater to the industrial needs and to utilise them in the utmost practical manner.

The syllabus has been prepared after discussions with a number of faculty members in the subject and also after evaluating the existing syllabi of BSc, the new syllabi of XI & XII standards, the UGC model curriculum and syllabi of other Universities. The reference materials have been recommended after a thorough study. The revised course pattern, distribution of credits, scheme of evaluation and syllabus approved by the board are given below.

BSc Chemistry Programme

The BSc programme in Chemistry is offered in six semesters within a period of three academic years. The programme shall include four types of courses, viz.,

- Common course -English & Additional language (Code A)
- Core course(Code B)
- Complementary course(Code C)
- Open course(Code D)

The Common and Complementary courses will be conducted during semester I to IV and the Core courses from semester I to VI. Open course will be during V semester.

COURSE STRUCTURE FOR CHEMISTRY (UG) PROGRAMME

2014 ADMISSION

SEMESTER 1

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Common Course I English I	5	4	10	40	50
2	Common Course 2 English II	4	3	10	40	50
3	Common Course - Additional Language Course I	4	4	10	40	50
4	**Core Course 1 (Theoretical & Inorganic Chemistry)**	2	2	10	40	50
5	Core Course 2, Practical I	2	-	-	-	-
6	Complementary 1 (Course I)	2	2	8	32	40
7	Complementary 1 Practical	2	-	-	-	-
8	Complementary 2 (Course I)	4	3	10	40	50
	Total	**25**	**18**	**58**	**232**	**290**

SEMESTER 2

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Common Course 3 English III	5	4	10	40	50
2	Common Course 4 English IV	4	3	10	40	50
3	Common Course - Additional Language Course II	4	4	10	40	50
4	**Core Course 3 (Analytical Chemistry)**	2	2	10	40	50
5	Core Course 2, Practical I, Part II	2	3	10	40	50
6	Complementary 1 (Course II)	2	2	8	32	40
7	Complementary 1(Course II) Practical	2	-	-	-	-
8	Complementary 2 (Course II)	4	3	10	40	50
	Total	**25**	**21**	**68**	**272**	**340**

SEMESTER 3

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Common Course 5 English V	5	4	10	40	50
2	Common Course - Additional Language Course III	5	4	10	40	50
3	**Core Course 4 (Organic Chemistry-I)**	3	3	10	40	50
4	Core Course 5, Practical 2,Part I	2	-	-	-	-
5	Complementary 1 (Course III)	3	2	8	32	40
6	Complementary 1 (Course III) Practical	2	-	-	-	-
7	Complementary 2 (Course III)	5	3	10	40	50
	Total	**25**	**16**	**48**	**192**	**240**

SEMESTER 4

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Common Course 6 English VI	5	4	10	40	50
2	Common Course - Additional Language Course IV	5	4	10	40	50
3	**Core Course 6 (Organic Chemistry -II)**	3	3	10	40	50
4	Core Course 5, Practical 2,Part II	2	3	10	40	50
5	Complementary 1 (Course IV)	3	2	8	32	40
6	Complementary 1 (Course IV) Practical	2	4	8	32	40
7	Complementary 2 (Course IV)	5	3	10	40	50
	Total	**25**	**23**	**66**	**264**	**330**

SEMESTER 5

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Open Course	2	2	5	20	25
2	Core Course 7 (Inorganic Chemistry -I)	3	4	10	40	50
3	Core Course 8 (Inorganic Chemistry-II)	3	4	10	40	50
4	Core Course 9 (Physical Chemistry-I)	3	4	10	40	50
5	Core Course 10 (Physical Chemistry-II)	3	4	10	40	50
7	Core Course 11,Practical 3	5	-	-	-	-
8	Core Course 12, Practical 4	5	-	-	-	-
9	Core Course 13 Project/Industrial Visit	1	-	-	-	-
	Total	**25**	**18**	**45**	**180**	**225**

SEMESTER 6

No.	Title of the Course	Hours /week	Credit	Marks		
				IA	ESE	Total
1	Core Course 14 (Organic Chemistry-III)	4	4	10	40	50
2	Core Course 15 (Physical Chemistry-III)	3	3	10	40	50
3	Core Course 16 (Physical methods In Chemistry)	3	3	10	40	50
4	Core Course 17(Elective)	3	3	10	40	50
5	Core Course 18, Practical 5	3	3	10	40	50
6	Core Course 11& 12 Practical 3& 4	7	6	10+ 10	40+ 40	50+ 50
7	Core Course 13 Project Industrial Visit	2	2	4	16+ 5	25
	Total	**25**	**24**	**74**	**301**	**375**

Total Credit **120**

Total Marks **1800**

Scheme of Mark distribution - B Sc Chemistry Programme

Course	No.of Papers	Marks per paper	Total Marks
Common Course-English	6	50	300
Common Course-Addl.language	4	50	200
Complimentary Course-Physics	5(4 Theory +1Practical)	40	200
Complimentary Course-Mathematics	4	50	200
Core Course-Chemistry	17(12Theory +5Practicals)	50	850
Project	1	25	25
Open Course	1	25	25

Credit distribution - B Sc Chemistry programme (Semester I to VI)

Programme	Sem.	Common*		Core	Complementary		Open	Total
		Eng	Addl.	Chemistry	Maths	Physics		
BSc (Chemistry)	I	4+3	4	2	3	2		18
	II	4+3	4	2+3	3	2		21
	III	4	4	3	3	2		16
	IV	4	4	3+3	3	2+4		23
	V			4+4+4+4			2	18
	VI			4+3+3+3+3+3+3+2				24
	Total	22	16	56	12	12	2	120

Components of Core (Chemistry)

The core courses of BSc Chemisty programme will consists of the following components.

- Theory
- Practical
- Project (Investigatory)
- Study tour (Visiting Factory/ science institute/laboratory).

Scheme of Core course (Chemistry)

No.	Semester	Course code	Title of the Course	Credits	Contact hr/week
1	I	1B01CHE	Theoretical and Inorganic Chemistry	2	2
2	II	2B03CHE	Analytical Chemistry	2	2
3	II	1B02CHE & 2B02CHE	*Core Course Practical I Volumetric Analysis	3	2—I Sem 2—II Sem
4	III	3B04CHE	Organic Chemistry-I	3	3
5	IV	4B06CHE	Organic Chemistry-II	3	3
6	IV	3B05CHE & 4B05CHE	*Core Course Practicals 2 Inorganic Qualitative Analysis	3	2—III Sem 2—IV Sem
7	V	5B07CHE	Inorganic Chemistry-I	4	3
8	V	5B08CHE	Inorganic Chemistry-II	4	3
9	V	5B09CHE	Physical Chemistry- I	4	3
10	V	5B10CHE	Physical Chemistry- II	4	3
11	VI	6B14CHE	Organic Chemistry III	4	4
12	VI	6B15CHE	Physical Chemistry III	3	4
13	VI	6B16CHE	Physical Methods in Chemistry	3	3
14	VI	6B17CHE	Elective	3	3
15	VI	5B11CHE 6B11CHE	*Core Course Practicals 3 Gravimetric Analysis	3	5—V Sem 2—VI Sem
16	VI	5B12CHE 6B12CHE	*Core Course Practicals 4 Organic Chemistry	3	5---V Sem 3---VI Sem
17	VI	6B18CHE	*Core Course Practicals5 Physical Chemistry	3	5
18	VI	5B13CHE 6B13CHE	Project & Industrial Visit	2	1—SemV 1---Sem VI

* External examination will be held at the end of II/ IV/VI semester

Scheme for Core Elective Course

No	Semester	Course code	Title of the course	Contact hour/ Week	Credit
1	VI	6B17CHE-A	Environmental Chemistry	3	3
2	VI	6B17CHE-B	Applied Chemistry	3	3
3	VI	6B17CHE-C	Polymer Chemistry	3	3
4	VI	6B17CHE-D	NanoChemistry	3	3

Scheme--- Complementary Course (Chemistry)

No	Semester	Course code	Title of the course	Contact hour/ week	Credit
1	I	1C01CHE	Chemistry (For Physical & Biological Sciences)	2	2
2	II	2C02CHE	Chemistry (For Physical & Biological Sciences)	2	2
3	III	3C03CHE(BS)	Chemistry (For Biological Science)	3	2
4	III	3C03CHE(PS)	Chemistry (For Physical Science)	3	2
5	IV	4C04CHE(BS)	Chemistry (For Biological Science)	3	2
6	IV	4C04CHE(PS)	Chemistry (For Physical Science)	3	2
5	I,II, III&IV	4C05CHE*	Complementary Chemistry practical	2	4

* External examination will be conducted at the end of IV semester.

Scheme of Open course

The open course is meant for all the students in the institution except the students of BSc Chemistry programme. External examination will be conducted at the end of Vth semester.

Options available for Open course (Chemistry)

No	Semester	Course code	Title of the course	Contact hour/ week	Credit
1	V	5D01CHE	Chemistry in Service to man	2	2
2	V	5D02CHE	Drugs-Use & Abuse	2	2
3	V	5D03CHE	Environmental Studies	2	2
4	V	5D04CHE	Nanomaterials	2	2

Evaluation pattern

Mark system will be followed instead of direct grading for each question. For each course in the semester letter grade, grade point and % of marks are introduced in 7-point indirect grading system as per KUCBCSSUG 2014. Accordingly 20% of the total marks in each course are for internal evaluation and the remaining 80% for external evaluation.

Internal Evaluation (Core , Complementary & Open)

Components with percentage of marks of Internal Evaluation of Theory

- Attendance-25%
- Test papers-50%
- Assignment/ Seminar/Viva-25%

Internal evaluation is conducted by the concerned Department in mark system. Marks secured for internal evaluation need be send to University.

External Evaluation (Core , Complementary & Open)

External assessment will include Theory, Practical and Project evaluation conducted by University after the completion of a semester. Duration of theory examination for Core & Complementary courses will be 3 hours, where as for Open course is 2 hours. The practical examination for Core & Complementary will be of 4 hour duration.

Project work:

Project works will be carried out in fifth and sixth semesters. Not more than five students can form a group and undertake a project. Each individual student should submit a copy of the project report duly attested by the supervising teacher and Head of the

department. The report has to be presented at the time of practical examination conducted at the end of VI semester for evaluation.

Study tour:

Students are required to visit a factory/Laboratory/Research Institute of repute during the course and have to submit the report of the study tour at the end of the sixth semester during the time of practical examination. No credit will be separately given for study tour report.

Practical record, Project report & Study tour report must be certified by the teacher in charge and countersigned by the Head of the Department. Students should submit certified record of respective practical work at the time of University practical examination.

Mark distributions

Table 1: Internal and External marks for Core (Chemistry) courses:

Item	Marks		Total
	Internal	External	
Theory	10	40	50
Practical	10	40	50
Industrial visit	--	5	5
Project	4	16	20

Table 2: Internal and External marks for Complementary (Chemistry)

Item	Marks		Total
	Internal	External	
Theory	8	32	40
Practical	8	32	40

Table 3: Internal and External marks for Open Course (Chemistry)

Item	Marks		Total
	Internal	External	
Theory	5	20	25

Table 4: Distribution of Internal marks for Theory courses (Core, Complementary & Open).

Attendance	25%
Assignment /Seminar/Viva	25%
*Test paper	50 %

* At least two test papers are to be conducted and average of these two is to be taken for awarding mark.

Table 5: Distribution of Internal marks for Practical courses

Attendance	25%
Record + Lab involvement*	50%
Test papers	25%

*On completion of each experiment, a report should be presented to the course teacher. It should be recorded in a bound note-book. The experimental description should include aim, principle, materials/apparatus required/used, method/procedures, and tables of data collected, equations, calculations, graphs, and other diagrams etc. as necessary and final results.

Table 6: Distribution of internal and external marks for Project

Internal (20% of Total)	%	External (80 % of total)	%
Punctuality	20 %	Relevance of Topic/Statement of Objectives and Methodology	20%
Use of data	20%	Presentation/Quality of analysis and findings	30 %
Scheme and Organization of report	30%	Viva Voce	50%
Viva Voce	30 %		

Criteria for awarding marks for Attendance:

Table 7: Distribution of marks for attendance

.

Attendance %	Marks%
Above 90%	100%
85 to 89%	80%
80 to 84%	60%
76 to 79%	40%
75%	20%

Grading of students

Internal marks alone need to be sent to the University. External examination will be conducted and assessed by the University using mark system. The semester wise performance called SGPA(Semester Grade Point Average) and overall performance on completion of the programme called CGPA (Cumulative Grade Point Average) of a student will be made by the University by taking the marks of internal and external assessments using a 7 Point Indirect Grading System as per KUCBCSSUG 2014. Finally an overall letter grade (called Cumulative Grade) for the entire programme will be awarded by the University. For the detailed calculations of SGPA, CGPA & Overall letter grade readers are directed to refer KUCBCSSUG 2014.

Table 8**:** Seven Point Indirect Grading System**.**

Marks	Grade	Interpretation	Grade point average	Range of grade	Class
90 and above	A+	Outstanding	6	5.5 - 6	First class with distinction
80 to 89	A	Excellent	5	4.5 - 5.49	
70 to 79	B	Very good	4	3.5 - 4.49	First class
60 to 69	C	Good	3	2.5 - 3.49	
50-59	D	Satisfactory	2	1.5 - 2.49	Second class
40-49	E	Adequate	1	0.5 - 1.49	Pass
Below 40	F	Failure	0	0.0 - 0.49	Fail

Distribution of Marks & type of questions for Core (Chemistry**), Complementary (**Chemistry**) & Open (**Chemistry**) courses**.

Table 9. Type of questions & Marks for External Examination - Core Chemistry

	Total Questions	No. Of Questions to be answered	Mark for each Marks for each Question	Total Marks
Very short answer	4	4	1	4
Short answer	10	7	2	14
Short essay/Problems	6	4	3	12
Essay	4	2	5	10
	24	17		40

Question papers in Physical Chemistry course should contain numerical problems for 20% of the total marks.

Table 10. Type of Questions & Marks for External Examination- Complementary Chemistry

	Total Questions	No. Of Questions to be answered	Mark for each Question	Total Marks
Very short answer	5	5	1	5
Short answer	6	4	2	8
Short essay/Problems	5	3	3	9
Essay	4	2	5	10
	20	14		32

Table 11. Type of Questions & Marks for External Examination - Open Course

	Total Questions	No. Of Questions to be answered	Mark for each Marks for each Question	Total Marks
Very short answer	5	5	1	5
Short answer	5	3	2	6
Short essay/Problems	5	3	3	9
Total	15	11		20

Distribution of marks for the practical examination:

The distribution of marks will be decided by the concerned Board of Examinations.

ANNEXURE I

Guidelines for the Evaluation of Projects

1. Evaluation of the Project Report shall be done under Mark System.

2. The evaluation of the project will be done at two stages:

   a) Internal Assessment (supervising teachers will assess the project and award internal Marks)

   b) External evaluation (external examiner appointed by the University)

   c) Marks secured for the project will be awarded to candidates, combining the internal and external Marks

3. The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal(20% of total)	
Components	**% of internal Marks**
Punctuality	20
Use of Data	20
Scheme/Organization of Report	30
Viva-Voce	30

External(80% of Total)	
Components	**% of external Marks**
Relevance of the Topic, Statement of Objectives, Methodology (Reference/ Bibliography)	20
Presentation, Quality of Analysis/Use of Statistical tools, Findings and recommendations	30
Viva-Voce	50

4. Internal Assessment should be completed 2 weeks before the last working day of VIth semester.

5. Internal Assessment marks should be published in the department.

8. Project evaluation shall be done in the VI semester along with practical exams.

9. Chairman Board of Examinations, may at his discretion, on urgent requirements, make certain exception in the guidelines for the smooth conduct of the evaluation of project.

2. PASS CONDITIONS-

1. Submission of the Project Report and presence of the student for viva are compulsory for internal evaluation. No marks shall be awarded to a candidate if she/he fails to submit the Project Report for external evaluation.

2. The student should get a minimum of 40 % marks for pass in the project.

3. In an instance of inability of obtaining a minimum of 40% marks, the project work may be re- done and the report may be re-submitted along with subsequent exams through parent department.

****

KANNUR UNIVERSITY

(Abstract)

B Sc Chemistry/ B.Sc.Biochemistry/B.Sc.Polymer Chemistry Programmes -Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad/C2/12380/2019 Civil Station P.O Dated 20/06/2019

Read:- 1. U.O.No.Acad.C2/429/2017 dt.10-10-2017

2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O No.Acad.C2/429/2017 Vol.II dt.03-06-2019
4. The Minutes of the meeting of the Board of Studies in ChemistryUG held on 07-06-2019
5. The Syllabus submitted by the Chairperson, Board of Studies in Chemistry (UG)dated 13/06/2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies, Workshops and discussions.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Chemistry (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core, Complementary Elective & Generic Elective Course of B.Sc.Chemistry/B.Sc. Biochemistry/ B.Sc.Polymer Chemistry Programmes to be implemented with effect from 2019 Admission.

--2

5. As per paper read (5) above, the Chairperson, Board of Studies in Chemistry (UG) has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of B.Sc. Chemistry/ B.Sc Biochemistry/ B.Sc Polymer Chemistry programmes.
6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper(Core/Complementary Elective/Generic Elective Course) of B.Sc Chemistry, B.Sc Biochemistry and B.Sc Polymer Chemistry programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in Affiliated colleges with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Papers of B.Sc Chemistry/ B.Sc Biochemistry/ B.Sc Polymer Chemistry Programmes are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR(ACADEMIC)
for REGISTRAR

To

The Principals of Colleges offering B.Sc Chemistry/ B.Sc Biochemistry/ B.Sc Polymer Chemistry programme

Copy to:-

1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Chemistry (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer(for uploading in the website)
6. SF/DF/FC

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

Forwarded/By Order

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES, CHEMISTRY (UG)

SYLLABUS FOR CHEMISTRY CORE COURSE

COMPLEMENTARYELECTIVE COURSE AND GENERIC ELECTIVE COURSES

FOR BSc CHEMISTRY PROGRAMME

CHOICE BASED CREDIT AND SEMESTER SYSTEM

(2019 ADMISSION ONWARDS)

ANNEXURE (i)

KANNUR UNIVERSITY

VISION AND MISSION STATEMENTS

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady Taluk of Wayanad Revenue District.

Mission:

- To produce anddisseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher educationand to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

ANNEXURE (ii)

KANNUR UNIVERSITY

PROGRAMME OUTCOMES (PO)

PO 1.Critical Thinking:

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.

1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.

1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.

2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.

2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3.Effective Communication:

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language

3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.

3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.

4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.

4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

The syllabus is prepared based on an interdisciplinary approach and aim to provide the students a deep understanding of the basic concepts of chemical sciences by acquiring the knowledge of terms, facts, concepts, processes, techniques and principles of the subject. It attempts to equip the students to cater to the industrial needs and to utilise them in the utmost practical manner.

The updated syllabus is preparedbased on Kannur University Regulations for Choice Based Credit and Semester System for Under-Graduate Programme 2019" (in OBE – Outcome Based Education – system) (KUCBCSSUG 2019) with a view to implement outcome based education (OBE) and curriculum from the academic year 2019 -20 onwards as proposed by higher education agencies .

An OBE curriculum means, starting with a clear picture of what is important for students to be able to do, then organizing the curriculum, instruction and assessment to make sure this learning ultimately happens.Intended learning outcomes (POs, PSOs and COs) which specify what graduates completing BSc Chemistry programme are expected to know, understand and be able to do at the end of their programme of studywere discussed at various stages in three day OBE workshop conducted by KSHEC Trivandrum associated with Kannur University. These learning outcomes(POs,PSOs and COs) were further discussed along with content of the syllabus and assessment methods at the workshops conducted for faculty members and other stakeholders for restructuring curriculum by Kannur University and finalised after consulting with intellectuals, academicians, faculty members , researchers and students

The B Sc degree programme in Chemistry designed for students to attainthe intended learning outcomes which specified as PSOs(Programme Specific Outcome) and COs(Course Outcome)are clearly stated in the syllabus.

The mission and vision statements and PO statements of the University were givenat the beginning of the syllabus and PSO statements before the scheme of the syllabus .The CO statements are givenin the beginning of each of the courses. Teachers need to aware these statements as these describe the desired educational accomplishments of the degree programs.The reference materials have been recommended after a thorough study. The revised course pattern, distribution of credits, scheme of evaluation and syllabus approved by the board are given.

There are many personalities whose support and guidance made this restructured syllabus a reality. I express my profound gratitude to the members of the Board of Studies (UG) in Chemistry who provided me extensive personal and professional support during the work of restructuring this syllabus. With immense pleasure and gratitude I remember the untiring support rendered by the faculty members of Chemistry from various Colleges of Kannur University,academic community and all other stake holderswho worked for preparing this restructured syllabus and curriculum.

Saheed VK

Chairperson

Board of Studies, Chemistry(UG) ,Kannur University.

Kannur University

BSc Chemistry Programme

Programme Specific Outcomes (PSOs)

After successful completion of three year degree program in Chemistry a student should be able to;

PSO 1 Understand the fundamental concepts, principles and processes underlying the academic field of chemistry, its different subfields (analytical, inorganic, organic and physical), and its linkages with related disciplinary areas/subjects;

PSO 2 Demonstrate procedural knowledge that creates different types of professionals in the field of chemistry and related fields such as pharmaceuticals, chemical industry, teaching, research, environmental monitoring, product quality, consumer goods industry, food products, cosmetics industry, etc.;

PSO 3 Employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment and the society.

PSO 4 Use chemical techniques relevant to academia and industry, generic skills and global competencies, including knowledge and skills that enable students to undertake further studies in the field of chemistry or a related field, and work in the chemical and non-chemical industry sectors.

PSO5 Undertake hands on lab work and practical activities which develop problem solving abilities required for successful career in pharmaceuticals, chemical industry, teaching, research, environmental monitoring, product quality, consumer goods industry, food products, cosmetics industry, etc.

PSO 6 Understand safety of chemicals, transfer and measurement of chemical, preparation of solutions, and find out the green route for chemical reaction for sustainable development.

PSO 7 Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.

COURSE STRUCTURE FOR CHEMISTRY (UG) PROGRAMME
2019 ADMISSION

SEMESTER I

No.	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	English Common Course I	5	4	10	40	50
2	English Common Course II	4	3	10	40	50
3	Additional Common Course I	4	4	10	40	50
4	Core Course 1 (Theoretical & Inorganic Chemistry)	2	2	10	40	50
5	Core Course 2 Practical I Part 1	2	-	-	-	-
6	ComplementaryElective -I (Course I)	2	2	8	32	40
7	Complementary Elective Practical	2	-	-	-	-
8	Complementary Elective -II (Course I)	4	3	10	40	50
	Total	25	18	58	232	290

SEMESTER-II

No	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	English Common Course III	5	4	10	40	50
2	English Common Course IV	4	3	10	40	50
3	Additional Common Course- II	4	4	10	40	50
4	Core Course 3 (Analytical and Inorganic chemistry– I)	2	2	10	40	50
5	Core Course 2, Practical I - Part 2	2	3	10	40	50
6	Complementary Elective – I (Course II)	2	2	8	32	40
7	Complementary Elective Practical	2	-	-	-	-
8	Complementary Elective -II (CourseII)	4	3	10	40	50
	Total	25	21	68	272	340

SEMESTER-III

No	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	English Common Course V	5	4	10	40	50
2	Additional Common Course- III	5	4	10	40	50
3	Core Course4 (Organic Chemistry I)	3	3	10	40	50
4	Core Course 5 Practical 2,Part I	2	-	-	-	-
5	Complementary Elective -1(CourseIII)	3	2	8	32	40
6	Complementary Elective Practical	2	-	-	-	-
7	Complementary Elective -II (CourseIII)	5	3	10	40	50
	TOTAL	25	16	48	192	240

SEMESTER-IV

No	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	English Common Course VI	5	4	10	40	50
2	Additional Common Course- IV	5	4	10	40	50
3	Core Course 6(Organic Chemistry II)	3	3	10	40	50
4	Core Course 5 Practical 2,Part II	2	3	10	40	50
5	Complementary Elective -1(CourseIV)	3	2	8	32	40
6	Complementary ElectivePractical	2	4	8	32	40
7	Complementary Elective -II (CourseIV)	5	3	10	40	50
	TOTAL	25	23	66	264	330

SEMESTER-V

No	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	Generic Elective Course	2	2	5	20	25
2	Core Course 7 Analytical and Inorganic Chemistry-II	3	4	10	40	50
3	Core Course 8 (Inorganic Chemistry)	3	4	10	40	50
4	Core Course 9 (Physical Chemistry-I)	3	4	10	40	50
5	Core Course 10 (Physical Chemistry-II)	3	4	10	40	50
6	Core Course 11,Practical 3	5	-	-	-	-
7	Core Course 12, Practical 4	5	-	-	-	-
8	Core Course 13 Project/Industrial Visit	1	-	-	-	-
	TOTAL	25	18	45	180	225

SEMESTER-VI

No	Title of the Course	Hours /week	Credit	MARKS		
				CE	ESE	TOTAL
1	Core Course 14 (Organic Chemistry-III)	4	4	10	40	50
2	Core Course 15 (Physical Chemistry-III)	4	3	10	40	50
3	Core Course 16 (Physical methods In Chemistry)	3	3	10	40	50
4	Core Course 17 Discipline Specific Elective Course	3	3	10	40	50
5	Core Course 18, Practical 5	3	3	10	40	50
6	Core Course 11& 12 Practical 3& 4	7	6	10+ 10	40+ 40	50+ 50
7	Core Course 13 Project Industrial Visit	1	2	4	16+ 5	25
	TOTAL	25	24	74	301	375

First Complementary Elective –Physics, Second Complementary Elective-Mathematics

Total Credit 120

Total Marks 1800

Scheme of Mark distribution - B Sc Chemistry Programme

Course	No.of Papers	Marks per paper	Total Marks
English Common Course	6	50	300
Additional Common Course	4	50	200
ComplementaryElective Course -Physics	5(4 Theory +1Practical)	40	200
Complementary Elective Course -Mathematics	4	50	200
Core Course-Chemistry	17(12Theory +5Practicals)	50	850
Project	1	25	25
Generic Elective Course	1	25	25

Credit distribution - B Sc Chemistry Programme (Semester I to VI)

Programme	Sem.	Common*		Core	ComplementaryElective Course		Generic Elective Course	Total
		Eng	Addl	Chemistry	Mathematics	Physics		
BSc (Chemistry)	I	4+3	4	2	3	2		18
	II	4+3	4	2+3	3	2		21
	III	4	4	3	3	2		16
	IV	4	4	3+3	3	2+4		23
	V			4+4+4+4			2	18
	VI			4+3+3+3+3+3+3+2				24
	Total	22	16	56	12	12	2	120

Components of Core (Chemistry)

The core courses of BSc Chemisty Programme will consists of the following components.

- Theory
- Practical
- Project (Investigatory)
- Study tour (Visiting Factory/ science institute/laboratory).

Scheme of Core course (Chemistry)

No.	Semester	Course code	Title of the Course	Credits	Contact hr/week
1	I	1B01CHE	Theoretical and Inorganic Chemistry	2	2
2	II	2B03CHE	Analytical and Inorganic chemistry-I	2	2
3	II	1B02CHE/PCH & 2B02CHE/PCH	*Core Course Practical I Volumetric Analysis	3	2—I Sem 2—II Sem
4	III	3B04CHE/PCH	Organic Chemistry-I	3	3
5	IV	4B06CHE/PCH	Organic Chemistry-II	3	3
6	IV	3B05CHE/PCH & 4B05CHE/PCH	*Core Course Practicals 2 Inorganic Qualitative Analysis	3	2—III Sem 2—IV Sem
7	V	5B07CHE/PCH	Analytical and Inorganic chemistry-II	4	3
8	V	5B08CHE/PCH	Inorganic Chemistry	4	3
9	V	5B09CHE/PCH	Physical Chemistry- I	4	3
10	V	5B10CHE/PCH	Physical Chemistry- II	4	3
11	VI	6B14CHE/PCH	Organic Chemistry III	4	4
12	VI	6B15CHE/PCH	Physical Chemistry III	3	4
13	VI	6B16CHE/PCH	Physical Methods in Chemistry	3	3
14	VI	6B17CHE/PCH	Discipline Specific Elective Course	3	3
15	VI	5B11CHE/PCH 6B11CHE/PCH	*Core Course Practicals 3 Gravimetric Analysis	3	5—V Sem 4—VI Sem
16	VI	5B12CHE/PCH 6B12CHE/PCH	*Core Course Practicals 4 Organic Chemistry	3	5---V Sem 3---VI Sem
17	VI	6B18CHE/PCH	*Core Course Practicals5 Physical Chemistry	3	3
18	VI	5B13CHE/PCH 6B13CHE/PCH	Project & Industrial Visit	2	1—SemV 1---Sem VI

* External examination will be held at the end of II/ IV/VI semester

Scheme for Discipline Specific Elective Course

No	Semester	Course code	Title of the course	Contact hour/ Week	Credit
1	VI	6B17CHE/PCH-A	Environmental Chemistry	3	3
2	VI	6B17CHE/PCH-B	Applied Chemistry	3	3
3	VI	6B17CHE/PCH-C	Polymer Chemistry	3	3
4	VI	6B17CHE/PCH-D	NanoChemistry	3	3

Scheme forComplementaryElective Course (Chemistry)

No	Semester	Course code	Title of the course	Contact hour/ week	Credit
1	I	1C01CHE/PCH	Chemistry (For Physical & Biological Sciences)	2	2
2	II	2C02CHE/PCH	Chemistry (For Physical & Biological Sciences)	2	2
3	III	3C03CHE/PCH(BS)	Chemistry (For Biological Science)	3	2
4	III	3C03CHE/PCH(PS)	Chemistry (For Physical Science)	3	2
5	IV	4C04CHE/PCH(BS)	Chemistry (For Biological Science)	3	2
6	IV	4C04CHE/PCH(PS)	Chemistry (For Physical Science)	3	2
5	I,II, III&IV	4C05CHE*/PCH	ComplementaryElective Course practical	2	4

* External examination will be conducted at the end of IV semester.

Scheme of Generic Elective Course

The Generic Elective course is meant for all the students in the institution except the students of BSc Chemistry Programme. External examination will be conducted at the end of Vth semester.

Options available for Generic Elective course (Chemistry)

No	Semester	Course code	Title of the course	Contact hour/ week	Credit
1	V	5D01CHE/PCH	Chemistry in Service to man	2	2
2	V	5D02CHE/PCH	Drugs-Use & Abuse	2	2
3	V	5D03CHE/PCH	Environmental Studies	2	2
4	V	5D04CHE/PCH	Nanomaterials	2	2
5	V	5D05CHE/PCH	Chemistry in Every day life	2	2

Evaluation pattern

Mark system will be followed instead of direct grading for each question. For each course in the semester letter grade, grade point and % of marks are introducedin 7-point indirect grading system as per KUCBCSSUG 2019. Accordingly 20% of the total marks in each course are for internal evaluation and the remaining 80% for external evaluation.

Internal Evaluation (Core , Complementary Elective & Generic Elective)
Components with percentage of marks of Internal Evaluation of theory

Test papers-60%

Seminar/Viva-40%

Internal evaluation isconducted bythe concerned Department in mark system. Marks secured for internal evaluation need be send to University.

External Evaluation (Core , Complementary Elective & Generic Elective)
External assessment will include Theory, Practical and Project evaluation conducted by University after the completion of a semester. Duration of theory examination for Core &Complementary courses will be 3 hours, whereas for Generic Elective course is 2 hours. The practical examination for Core Course Practical I- Volumetric Analysis will be 3 hours and other Core &Complementary Elective practical exam will be of 4 hour duration.

Project work:
Project works will be carried out in fifth and sixth semesters. Not more than five students can form a group and undertake a project. Each individual student should submit a copy of the project report duly attested by the supervising teacher and Head of the department. The report has to be presented at the time of practical examination conducted at the end of VI semester for evaluation.

Study tour:
Students are required to visit a factory/Laboratory/Research Institute of repute during the course and have to submit the report of the study tour at the end of the sixth semester

during the time of practical examination. No credit will be separately given for study tour report.

Practical record, Project report & Study tour report must be certified by the teacher in charge and countersigned by the Head of the Department. Students should submit certified record of respective practical work at the time of University practical examination.

Mark distributions

Table 1: Internal and External marks for Core (Chemistry) courses:

Item	Marks		Total
	Internal	External	
Theory	10	40	50
Practical	10	40	50
Industrial visit	--	5	5
Project	4	16	20

Table 2: Internal and External marks for ComplementaryElective Course (Chemistry)

Item	Marks		Total
	Internal	External	
Theory	8	32	40
Practical	8	32	40

Table 3: Internal and External marks for Generic Elective Course (Chemistry)

Item	Marks		Total
	Internal	External	
Theory	5	20	25

Table 4: Distribution of Internal marks for Theory courses (Core, Complementary Elective & Generic Elective)

Seminar/Viva	40%
*Test paper	60 %

* At least two test papers are to be conducted and average of these two is to be taken for awarding mark.

Table 5: Distribution of Internal marks for Practical courses

Record + Lab involvement*	50%
Test papers/ Viva	50%

*On completion of each experiment, a report should be presented to the course teacher. It should be recorded in a bound note-book. The experimental description should include aim, principle, materials/apparatus required/used, method/procedures, and tables of data collected, equations, calculations, graphs, and other diagrams etc. as necessary and final results.

Table 6: Distribution of internal and external marks for Project

Internal (20% of Total)	%	External (80 % of total)	%
Punctuality	20 %	Relevance of Topic/Statement of Objectives and Methodology	20%
Use of data	20%	Presentation/Quality of analysis and findings	30 %
Scheme and Organization of report	30%	Viva Voce	50%
Viva Voce	30 %		

Distribution of Marks & type of questions for Core Course

<u>Marks including choice</u>:

Unit	Marks

Table 7. Type of questions & Marks for External Examination - Core Chemistry

	Total Questions	No. Of Questions to be Answered	Mark for each Question	Total Marks
Very short answer	4	4	1	4
Short answer	10	7	2	14
Short essay/Problems	6	4	3	12
Essay	4	2	5	10
	24	17		40

Question papers in Physical Chemistry course should contain numerical problems for 20% of the total marks.

Distribution of Marks & type of questions for Complementary Elective Course
Marks including choice:

Unit	Marks

Table 8. Type of Questions & Marks for External Examination- ComplementaryElective Course

	Total Questions	No. Of Questions to be answered	Mark for each Question	Total Marks
Very short answer	5	5	1	5
Short answer	6	4	2	8
Short essay/Problems	5	3	3	9
Essay	4	2	5	10
	20	14		32

Distribution of Marks for Generic Elective Course
Marks including choice:

Unit	Marks

Table 9. Type of Questions & Marks for External Examination –Generic Elective Course

	Total Questions	No. Of Questions to be Answered	Mark for each Marks for each Question	Total Marks
Very short answer	5	5	1	5
Short answer	5	3	2	6
Short essay/Problems	5	3	3	9
Total	15	11		20

Guidelines for the Evaluation of Projects

1.Evaluation of the Project Report shall be done under Mark System.

2.The evaluation of the project will be done at two stages:

a) Internal Assessment(supervising teachers will assess the project and award Internal Marks)

b) External evaluation (external examiner appointed by the University)

c) Marks secured for the project will be awarded to candidates, combining the Internal and External Marks

3. The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal(20% of total)		External(80% of Total)	
Components	% of internal Marks	Components	% of internal Marks
Punctuality	20	Relevance of the topic, Statement of Objectives Methodology (Reference/ Bibliography)	20
Use of Data	20	Presentation, Quality of Analysis/Use of Statistical tools, Findings and recommendations	30
Scheme/Organization of Report	30	Viva-voce	50
Viva-Voce	30		

4. Internal Assessment should be completed 2 weeks before the last working day of VIthsemester.

5.Internal Assessment marks should be published in the department.

6.Project evaluation shall be done in the VI semester along with practical exams.

7. Chairman Board of Examinations, may at his discretion, on urgent requirements, make certainexception in the guidelines for the smooth conduct of the evaluation of project.

2.PASS CONDITIONS-

1. Submission of the Project Report and presence of the student for viva are compulsory for internal evaluation. No marks shall be awarded to a candidate if she/he fails to submit theProject Report for external evaluation.

2. The student should get a minimum of 40 % marks of the aggregate and 40% separately for ESE and 10% CE for pass in the project.

3. In an instance of inability of obtaining a minimum of 40% marks, the project work may be re-done and the report may be re-submitted along with subsequent exams through parent department.

KANNUR UNIVERSITY

(Abstract)

B.Sc Mathematics Programme - Revised syllabus and model question paper under Choice Based Credit Semester System - Implemented w.e.f 2017 admissions - Orders Issued.

ACADEMIC C SECTION

No. Acad/C2/ 4762 /2014 **Dated, Civil Station P.O, 23-05-2017**

Read: 1. U.O of Even No. dated 12.05.2014

2. Minutes of the meeting of the BOS in Mathematics (UG) held on 20.12.2016.

3. Email from the Chairman , BOS in Mathematics (UG) dated 22.05.2017

ORDER

1. As per paper read (1) above, the scheme syllabus and pattern of question papers for core, complementary and open courses in B.Sc. Mathematics programme were implemented in the university w.e.f 2014 admission.

2. The meeting of the BOS in Mathematics (UG) held on 20.12.2016 vide paper read (2) above has recommended to incorporate certain modifications in the core papers 1B01MAT, 2B02MAT, 3B03MAT, 4B04MAT, 5B09MAT of B.Sc. Mathematics programme to be implemented w.e.f 2017 admissions.

3. The Chairman, Board of Studies in Mathematics (UG) vide paper read (3) above has submitted the revised syllabus of the core papers 1B01MAT, 2B02MAT, 3B03MAT, 4B04MAT, 5B09MAT of B.Sc. Mathematics programme to be implemented w.e.f 2017 admissions.

4. The Vice Chancellor, after examining the matter in detail, and in exercise of the powers of the Academic Council as per section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, has accorded sanction to implement with effect from 2017 admission, the revised syllabus of B.Sc. Mathematics programme incorporating the changes as recommended by the Board of Studies in Mathematics(UG), subject to report to the Academic Council.

P.T.O

5. The modified pages of syllabus and model question papers are appended for reference.

6. U.O as per the paper read (1) above, stands modified to this extent.

7. Orders, are therefore issued accordingly.

Sd/-
JOINT REGISTRAR (ACADEMIC)
FOR REGISTRAR

To

1. The Principals of the Affiliated Colleges offering B.Sc Mathematics course.

Copy To:

1. The Chairman, BOS in Mathematics (UG)
2. PS to VC/PA to PVC/PA to Registrar/PA to CE
3. JR/AR I Academic
4. SF/DF/FC.

Forwarded/By Order

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

Section Officer

For more details; log on www.kannuruniversity.ac.in

KANNUR UNIVERSITY

(Abstract)

B.Sc. Mathematics Programme-Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad.C2/13083/2019 Civil Station P.O, Dated 22/06/2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated 10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O No. Acad.C2/429/2017 Vol.II dated 03-06-2019
4. The Minutes of the Meeting of the Board of Studies in Mathematics held on 06/06/2019
5. Syllabus of B.Sc. Mathematics Submitted by the Chairperson, Board of Studies in Mathematics (UG)dated 21/06/2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes, such as conducting the meeting of various Boards of Studies, Workshops, discussion etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Mathematics (UG) finalized the Scheme, Syllabus & Pattern of Question Papers for Core, Complementary Elective & Generic Elective Course of B.Sc.Mathematics Programme to be implemented with effect from 2019 Admission.

5. As per paper read (5) above, the Chairperson, Board of Studies in Mathematics(UG) has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of B.Sc.Mathematics Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Papers (Core/Complementary Elective/Generic Elective Course) of the B.Sc.Mathematics programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Papers of the B.Sc. Mathematics Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
For REGISTRAR

To

The Principals of Colleges offering B.Sc. Mathematics programme

Copy to:-
1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Mathematics (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer (for uploading in the website)
6. SF/DF/FC

Forwarded/By Order

KANNUR UNIVERSITY * CIVIL STATION P.O. KANNUR Pin 670 002 * THAVAKKARA

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES, MATHEMATICS (UG)

SYLLABUS FOR
MATHEMATICS CORE COURSE,
COMPLEMENTARY ELECTIVE COURSES
AND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT AND SEMESTER SYSTEM

(2019 ADMISSION ONWARDS)

KANNUR UNIVERSITY
VISION AND MISSION STATEMENTS

Vision

To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady Taluk of Wayanad Revenue District.

Mission

- To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher education and to cater to the modern notions of equity, social justice and merit in all educational endeavours.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY

PROGRAMME OUTCOMES (PO)

PO 1. Critical Thinking

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.

1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.

1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2. Effective Citizenship

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.

2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.

2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3. Effective Communication

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language

3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.

3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO 4. Interdisciplinarity

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.

4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.

4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

Modern education is facing challenges to cater to the requirements of the expanding world of knowledge and information. Research studies in Basic Sciences, especially in Mathematics is to be encouraged in our country. Novel developments in the field of Mathematics are to be incorporated into the syllabus so as to cope with the challenges of ever growing field of knowledge.

The UG Board of Studies in Mathematics has designed a syllabus that familiarizes the students with the basic concepts of the subject. It helps the students to meet the current employment requirements and provides them ample scope for further study in the subject. The syllabi for Core Courses, Complementary Elective Courses and Generic Elective Courses promote self learning through assignments, seminars and project work in addition to class room learning.

The syllabus and curriculum has been prepared after concerted efforts and deliberations at various levels and it meets the programme specific outcomes. The reference materials have been recommended after a thorough study. The Board of Studies puts forward this syllabus for implementation from 2019 admission onwards. We thank all those who have helped us by giving critical suggestions for improvement.

Dr. C.P. Santhosh
Chairman
UG Board of Studies in Mathematics
Kannur University

KANNUR UNIVERSITY

PROGRAMME SPECIFIC OUTCOMES OF B.SC. MATHEMATICS PROGRAMME

PSO 1: Understand the basic concepts and tools of Mathematical logic, Set theory, Number theory, Geometry, Calculus, Algebra, Abstract structures, Linear Algebra, Analysis, Laplace transforms, Fourier series, Graph theory, and Optimization and methods of proofs.

PSO 2: Model real world problems into Mathematical problems and find solutions and understand the application of Mathematics in other Sciences and Engineering.

INDEX

KANNUR UNIVERSITY

BSc MATHEMATICS PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

Semester	Course Title	Credits	Hours per week	Total Credits	Total Hours
I	English Common Course 1	4	5	20	25
	English Common Course 2	3	4		
	Additional Common Course 1	4	4		
	Core Course 1	4	4		
	First Complementary Elective Course 1	3	4		
	Second Complementary Elective Course 1	2	4		
II	English Common Course 3	4	5	20	25
	English Common Course 4	3	4		
	Additional Common Course 2	4	4		
	Core Course 2	4	4		
	First Complementary Elective Course 2	3	4		
	Second Complementary Elective Course 2	2	4		
III	English Common Course 5	4	5	17	25
	Additional Common Course 3	4	5		
	Core Course 3	4	5		
	First Complementary Elective Course 3	3	5		
	Second Complementary Elective Course 3	2	5		
IV	English Common Course 6	4	5	21	25
	Additional Common Course 4	4	5		
	Core Course 4	4	5		
	First Complementary Elective Course 4	3	5		
	Second Complementary Elective Course 4 (T+P)	6(2+4)	5		
V	Core Course 5	4	4	21	25
	Core Course 6	4	5		
	Core Course 7	4	5		
	Core Course 8	3	4		
	Core Course 9	4	5		
	Generic Elective Course	2	2		
VI	Core Course 10	4	5	21	25
	Core Course 11	4	5		
	Core Course 12	4	5		
	Core Course 13	4	5		
	Core Course 14 (Discipline Specific Elective Course)	3	5		
	Project	2	---		
Total				**120**	

CREDIT DISTRIBUTION STATEMENT

Course	Credit
English Common Course	22
Additional Common Course	16
Core Course	56
First Complementary Elective Course - Statistics	12
Second Complementary Elective Course - Physics/Computer Science	12
Generic Elective Course	2
Total	**120**

KANNUR UNIVERSITY
(Abstract)

BSc Physics Programme - Revised Scheme, Syllabus & Model Question Papers of Core, Complementary and Open Courses under Choice Based Credit Semester System for Under Graduate Programme - implemented with effect from *2014 admission - Orders Issued.*

ACADEMIC BRANCH

No. Acad/C2/986 /2014 Dated, Civil Station P.O, 28-05-2014

Read: 1 .U.O No. Acad/C2/2232/2014 dated 14-03-2014
2. Minutes of the meeting of the Board of Studies in Physics (UG) held on 01-01-2014
3. Minutes of the meeting of the Faculty of Science held 25-03-2014
4. Letter dated 23-01-2014 from the Chairman, BOS in Physics (UG)

ORDER

1. The Revised Regulations for UG Programme under Choice based Credit Semester System were implemented in this University with effect from 2014 admission as per paper read (1) above.

2. As per paper read (2) above the Board of Studies in Physics (UG) finalized the Scheme , Syllabus & model Question Papers for Core, Complementary & open courses of BSc Physics programme to be implemented with effect from 2014 admission..

3. As per read (3) above the Faculty of Science held on 25-03-2014 approved Scheme, syllabus & model question papers for core/complementary & open courses of BSc Physics programme to be implemented with effect from 2014 admission.

4. The Chairman, Board of Studies in Physics (UG)) vide paper read (4) above has submitted the finalized copy of Scheme, syllabus & Model question papers for core/complementary and open courses of BSc Physics programme for implementation with effect from 2014 admission.

5. The Vice Chancellor, after examining the matter in detail, and in exercise of the powers of the Academic Council as per section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, has accorded sanction to implement the revised scheme, syllabus& model question papers of BSc Physics Programme with effect from 2014 admission.

6. Orders, are therefore issued implementing the revised scheme, syllabus & model question papers for core, complementary& open courses of BSc Physics programme under CBCSS with effect from 2014 admission subject to report to Academic Council

7. Implemented revised Syllabus is appended.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
FOR REGISTRAR

To

1. The Principals of Affiliated Colleges offering B.Sc Physics Programme
2. The Examination Branch (through PA to CE)

Copy To:

1. The Chairman, BOS Physics (UG)
2. PS to VC/PA to PVC/PA to Registrar
3. DR/AR I Academic
4. Central Library
5. SF/DF/FC.

Forwarded/By Order

Section Officer

KANNUR UNIVERSITY KANNUR PIN-670567

For more details log on to www.kannur university.ac.in

KANNUR UNIVERSITY

SCHEME & SYLLABUS OF

UG (PHYSICS)

Based on Kannur University regulations: KUCBCSSUG 2014

(Kannur University Choice Based Credit Semester System for Under Graduate system 2014)

BSc Core (Physics), Complementary (Physics) & Open (Physics) courses

(With effect from 2014 admissions)

Contents

Curriculum of BSc (Physics) Programme

Scope: By doing the BSc (Physics) programme students are aimed at developing interest in physics in order to continue further in the field of physics or to attain the necessary physics and allied background which an employer needs.

The BSc (Physics) programme curriculum consists of:

- Common (English) courses &Common (Additional language-Optional) courses
- Core (Physics) courses
- Complementary I (Maths) & Complementary II (Optional) courses
- Open (Optional) course

For the definitions of the terms mentioned above readers are requested to refer the UG regulations-2014 of Kannur University (KUCBCSSUG-2014) available at the website www.kannuruniversity.ac.in.

The Common (English), Common (Addl. language) & Complementary courses will be conducted during semester I to IV. The Core courses will span from semester I to VI. Open course will be during V semester alone.

Credit & Mark distribution of BSc (Physics) Programme

Total credits for the BSc (Physics) programme will be 120 & total marks: 1800 distributed through six semesters with the following details.

Table 1: Distribution of Credits & Marks for the BSc (Physics) programme.

Item	Credits	Marks
Common course (English)	22	300
Common(Addl. language) Optional	16	200
Complementary I(Maths)	12	200
Complementary II(Optional)	12	200
Core(Physics) courses	56	875
Open(Optional) course	2	25
Total	120	1800

Table 2**:** Semester wise Credit & Mark distribution of BSc (Physics) programme:

Sem.	Common		Core Physics	Complementary		Open	Total Credits	Total Marks
	Eng	Addl.		Maths	Compl.II			
I	4+3	4	3	3	2		19	290
II	4+3	4	3	3	2		19	290
III	4	4	3	3	2		16	240
IV	4	4	3+4	3	2+4		24	330
V			3+3+3+3+3			2	17	275
VI			3+3+3+3+3+4+4+2				25	375
Total	22	16	56	12	12	2	120	1800

Table 2(a):

SEMESTER I						
S No.	Title of the course	Hrs/week	Credits	Marks		
				IA**	ESE***	Total
1	Common course (English) I	5	4	10	40	50
2	Common course (English) II	4	3	10	40	50
3	Common course(Addl. language) VII	4	4	10	40	50
4	**Core course (Theory-1B01PHY)**	**2**	**3**	**10**	**40**	**50**
5	**Core course (Practical I-4B05PHY)***	**2**	**-**	**-**	**-**	**-**
6	Complementary (I) Theory I (Maths)	4	3	10	40	50
7	Complementary (II) Theory I	2	2	8	32	40
8	Complementary (II) Practical I *	2	-	-	-	-
Total		25	19	58	232	290

*External examination at the end of fourth semester

Internal assessment ; * End Semester Examination (external assessment)

Table 2(b):

S No	SEMESTER II					
	Title of the course	Hrs/ week	Credits	Marks		
				IA	ESE	Total
1	Common course (English) III	5	4	10	40	50
2	Common course (English) IV	4	3	10	40	50
3	Common course(Addl. language) VIII	4	4	10	40	50
4	**Core course (Theory-2B02PHY)**	**2**	**3**	**10**	**40**	**50**
5	**Core course (Practical I-4B05PHY)***	**2**	**-**	**-**	**-**	**-**
6	Complementary (I) Theory II(Maths)	4	3	10	40	50
7	Complementary (II) Theory II	2	2	8	32	40
8	Complementary (II) Practical *	2	-	-	-	-
Total		25	19	58	232	290

*External examination at the end of fourth semester

Table 2(c):

SEMESTER III						
S No.	Title of the course	Hrs/week	Credits	Marks		
				IA	ESE	Total
1	Common course (English) V	5	4	10	40	50
2	Common course(Addl. language) IX	5	4	10	40	50
3	**Core course (Theory-3B03PHY)**	**3**	**3**	**10**	**40**	**50**
4	**Core course (Practical I-4B05PHY)***	**2**	**-**	**-**	**-**	**-**
5	Complementary (I) Theory III(Maths)	5	3	10	40	50
6	Complementary (II) Theory III	3	2	8	32	40
7	Complementary (II) Practical *	2	-	-	-	-
Total		25	16	48	192	240

*External examination at the end of fourth semester

Table 2(d):

SEMESTER IV						
S No.	Title of the course	Hrs/week	Credits	Marks		
				IA	ESE	Total
1	Common course (English) VI	5	4	10	40	50
2	Common course(Addl. language) X	5	4	10	40	50
3	**Core course (Theory-4B04PHY)**	**3**	**3**	**10**	**40**	**50**
4	**Core course (Practical I -4B05PHY)**	**2**	**4**	**10**	**40**	**50**
5	Complementary (I) Theory IV(Maths)	5	3	10	40	50
6	Complementary (II) Theory IV	3	2	8	32	40
7	Complementary (II) Practical	2	4	8	32	40
	Total	25	24	66	264	330

Table 2(e):

SEMESTER V						
S No.	Title of the course	Hrs/ week	Credits	Marks		
				IA	ESE	Total
1	Open course	2	2	5	20	25
2	**Core course (Theory-5B06PHY)**	**3**	**3**	**10**	**40**	**50**
3	**Core course (Theory-5B07PHY)**	**3**	**3**	**10**	**40**	**50**
4	**Core course (Theory-5B08PHY)**	**3**	**3**	**10**	**40**	**50**
5	**Core course (Theory-5B09PHY)**	**3**	**3**	**10**	**40**	**50**
6	**Core course (Theory-5B10PHY)**	**3**	**3**	**10**	**40**	**50**
7	**Core course (Practical II -6B16PHY)!**	**4**	**-**	**-**	**-**	**-**
8	**Core course (Practical III -6B17PHY)!**	**4**	**-**	**-**	**-**	**-**
	Total	25	17	55	220	275

! External examination at the end of sixth semester

Table 2(f):

SEMESTER VI						
S No.	Title of the course	Hrs/week	Credits	Marks		
				IA	ESE	Total
1	**Core course (Theory -6B11PHY**	**3**	**3**	**10**	**40**	**50**
2	**Core course (Theory-6B12PHY)**	**3**	**3**	**10**	**40**	**50**
3	**Core course (Theory-6B13PHY)**	**3**	**3**	**10**	**40**	**50**
4	**Core course (Theory-6B14PHY)**	**3**	**3**	**10**	**40**	**50**
5	**Core course (Theory-6B15PHY) - Elective**	**3**	**3**	**10**	**40**	**50**
6	**Core course (Practical II-6B16PHY)**	**4**	**4**	**10**	**40**	**50**
7	**Core course (Practical III-6B17PHY)**	**4**	**4**	**10**	**40**	**50**
8	**Project (6B18PHY)**	**2**	**2**	**5**	**20**	**25**
9	**Study tour (6B19PHY)**	**-**	**-**	**-**		**-**
	Total	25	25	75	300	375

Components of Core (Physics)

The core courses of BSc (Physics) programme will consists of the following components.

- Theory
- Practical
- Project (Investigatory)
- Study tour (Visiting science institute/laboratory).

Objectives of theory, Practical, Project & Study tour

- **Theory courses**: The design of the theory syllabus is to lay the foundations of physics by learning the history, concepts involved, its language (mathematics), problem solving, and theoretical/experimental developments in various branches of Physics.

- **Practical courses**: To verify the theory they have learned using the laboratory, to develop skill(ability to handle apparatus) there by making them confident to handle delicate instruments, to perform precise measurements in future, data analysis by drawing graph, error analysis, computer based skill & to realize limitation of experimental measurements. In other words it aims at the needs that an employer expects from a physics graduate/ to prepare them for scientific research.

- **Project**: To develop investigation aptitude in Physics/Life. Selection of the topic for the project must be based on the physics (theory/experimental) they have learned through Semesters I to IV. The topic may be theoretical, experimental or a combination of both. Besides familiarisation of books/journals, familiarisation of software such as Mathematica, Matlab, Origin, Grapher, Latex etc. are also expected.
  It also aims at promoting scientific report writing practice*

- **Study tour**: Visiting of a science institute is aimed to get an awareness/idea of the set up/working/research occurring in institutes/laboratory.

  Components of complementary physics will include theory and practical; Open course will have theory only.

  ---

  *A commonly accepted form of an investigatory project report in science/physics will include:

  (1) An introductory section containing a brief historical development of theory/experimental back ground, objectives and relevance of the present investigation.

  (2) The present work &

  (3) Discussion of results he/she has obtained, conclusion & bibliography.

Scheme of Core (Physics), Complementary (Physics) & Open (Physics)

The distribution of various courses, course code, credits, marks & contact hours (known as scheme) for core physics, complementary physics, and open physics will be as follows.

(i) Scheme of Core (Physics)

For Core (Physics), total credits: 56 & total marks: 875

Table 3.**Scheme: BSc (Physics)-Core**

S No	Semester	Course code	Title of Course	Credits	Hrs/week	Marks!		
						IA	ESE	total
1	I	1B01PHY	Physics primers	3	2	10	40	50
2	II	2B02PHY	Electronics-I	3	2	10	40	50
3	III	3B03PHY	Allied Physics	3	3	10	40	50
4	IV	4B04PHY	Optics	3	3	10	40	50
5	I,II, III, IV	4B05PHY *	Practical 1	4	2	10	40	50
6	V	5B06PHY	Electrodynamics-I	3	3	10	40	50
7	V	5B07PHY	Thermal Physics	3	3	10	40	50
8	V	5B08PHY	Classical Mechanics & Relativity	3	3	10	40	50
9	V	5B09PHY	Python programming	3	3	10	40	50
10	V	5B10PHY	Atomic, Nuclear and Particle Physics	3	3	10	40	50
11	VI	6B11PHY	Electrodynamics- II	3	3	10	40	50
12	VI	6B12PHY	Photonics&Spectroscopy	3	3	10	40	50
13	VI	6B13PHY	Quantum mechanics	3	3	10	40	50
14	VI	6B14PHY	Electronics-II	3	3	10	40	50
15	VI	6B15PHY **	Elective	3	3	10	40	50
16	V,VI	6B16PHY ***	Practical II	4	4	10	40	50
17	V,VI	6B17PHY ***	Practical III	4	4	10	40	50
18	VI	6B18PHY ***	Project	2	2	5	20	25
19	V or VI	6B19PHY!!	Study tour	-	-	-	-	-

* External examination (ESE) will be held at the end of IV semester
** Options available are listed in Table 3(a): 6B15PHY (Elective)
*** External examination (ESE) will be held at the end of VI semester
! For detailed distribution of marks, see the section: Assessment pattern
!! Audit course: Course for which no credits are awarded.

Table-3(a) Options available for elective course (6B15PHY) :

S No	Title of the course
1	A. Plasma Physics.
2	B.Astronomy & Astrophysics
3	C. Atmospheric Physics
4	D. Nanoscience
5	E. Material Science
6	F.Computational Physics

(ii) Scheme of Complementary Physics courses

Table-4 Scheme of Complementary (Physics) courses:

Complementary (Physics) courses are expected to provide physics back ground for students of other BSc programmes. Total credits: 12 & total marks: 200, distributed as per the table given below.

S No	Semester	Course code	Title of the course	Hrs/ week	Credits	Marks*		
						IA	ESE	total
1	I	1C01PHY	Complementary Physics I (Mechanics)	2	2	8	32	40
2	II	2C02PHY	Complementary Physics II (Electricity, Magnetism and Thermal Physics)	2	2	8	32	40
3	III	3C03PHY	Complementary Physics III (Optics and Photonics)	3	2	8	32	40
4	IV	4C04PHY	Complementary Physics IV (Modern Physics and Electronics)	3	2	8	32	40
5	I,II,III &IV	4C05PHY **	Complementary Physics practical	2	4	8	32	40

*For detailed distribution of marks, see the section: Assessment pattern

** External examination will be conducted at the end of IV semester.

(iii) Scheme of Open course-Physics

The open course is meant for all the students in the institution except the students of BSc (Physics) programme. Motivation behind open course is that integration of concepts/theories/techniques from two or more disciplines will enable to advance understanding / solve problems whose solutions are beyond the scope of a single discipline. External examination will be conducted at the end of V semester.

Total credits: 2; Total marks: 25.

Table 5: **Scheme of Open course-Physics:**

S No	Semester	Course code	Title of the course	Hrs/week	Credits	Marks*		
						IA	ESE	total
1	V	5D01PHY	Open course **	2	2	5	20	25

* For detailed distribution of marks, see the section: Assessment pattern

**Table 5(a): Options available for Open course (Physics)

S No	Title of the course
1	A. Environmental Physics
2	B. Joy of star watching
3	C. Disaster Management
4	D. Biophysics

Assessment pattern

A general pattern of assessment as per KUCBCSSUG 2014 will be followed. Accordingly 20% of the total marks will be reserved for internal assessment (IA) and the remaining 80% through external examination (ESE). It is applicable for Core, Complementary and Open courses as well.

Internal assessment (Core (physics), Complementary (physics) & Open (physics)):

Internal assessment will include

- Regularity in attending the classes (Attendance)
- Test papers
- Assignment
- Seminar
- Viva

Internal assessment is continuous throughout the semester and to be conducted by the concerned Department in mark system.

Objectives of Attendance/Test paper/Assignment/Seminar/Viva:

- **Attendance:** To develop punctuality in students.

- **Test paper**: To assess the hard work/understanding of the subject and thereby to induce students the need for hard work in life.....

- **Assignments**: The objectives of assignment in general are to increase the knowledge/ to promote the abilities and skills of the students/ to extend what they know in to new situations/to develop the traits for developing physics/ to reinforce what students have already learned/ to prepare them for forthcoming complex lessons....

- **Seminar**: During a seminar assigned readings are discussed, questions raised and debates conducted in order to promote the interaction aspects of life...

- **Viva voce**: It is a measure of student's understanding of a subject/their ability to verbally explain the subject to others. (During viva voce a student may be made to face a group of teachers rather than a single teacher as far as possible)...

Topics for Assignment /Seminar/Viva

Students must be encouraged to familiarise with as much books/Journals/e-journals/internet resources as possible through assignment /seminar/viva. Topics for assignment/Seminar/viva for internal assessment may be given so as to induce them the various traits demanded by the term "Education". It must include topics such as **disaster management, drug abuse, alcoholism, de addiction centres, messages for abstention drug**, besides the subject area in order to remind their social commitments/prevention of social evils.

The total number of test papers/assignment/seminar/viva that may be conducted during a semester is decided by the concerned department depending on the time available/ student's capacity.

External assessment (Core (physics), Complementary (physics), &Open (physics)):

External assessment will include Theory, Practical & Project evaluation conducted by University after the completion of a semester called end semester examination (ESE). Duration of theory examination for Core (Physics) & Complementary (physics) courses will be 3 hours, where as for Open (physics) course is 2 hours. The practical examination for Core (Physics) & Complementary (physics) will be of 3 hour duration. Evaluation of the project will be made along with practical examination of core(Physics).

Practical log book: of students must be submitted to the external examiners during their University practical examination.

Project report & Study tour report: Students have to submit their project report & report of the study tour along with practical examination. No credit will be given for study tour report.

Practical log book, Project report & Study tour report must be certified by the teacher in charge and countersigned by the Head of the Department.

Table 6: Distribution of internal marks for Theory courses (Core, Complementary & Open).

Attendance	25%
*Assignment /Seminar/Viva	25%
**Test paper	50 %

* A minimum of one general assignment and one physics assignment are to be conducted and average mark is to be taken.
** At least two test papers are to be conducted and average of these two is to be taken for awarding marks.

Table 7: Distribution of internal marks for Practical courses (Core &Complementary)

Attendance	25%
* Record + **Lab involvement	50%
Test papers	25%

*A student is required to maintain a log book of their practical works which must include a brief theory of the each experiment, observations, tabulation, calculation, graph, result etc., regularly signed by the teacher in charge. Fair record is not required.

**Students may be asked to write a brief report (brief theory, formula, diagram/ circuit diagram, model graph) of each experiment before they enter in to the laboratory. Students must be encouraged to draw a sketch of the apparatus/instruments before they start doing the experiment for better familiarisation.

Table 8: Distribution of internal and external marks for Project

Internal (20% of total)	%	External (80 % of total)	%
Punctuality	20 %	Relevance of topic/statement of objectives and Methodology	20%
Use of data	20%	Presentation/Quality of analysis and findings	30 %
Scheme and organization of report	30%	Viva voce	50%
Viva voce	30 %		

Criteria for awarding marks for Attendance:

Table 9: Distribution of marks for attendance

.

Attendance %	Marks%
Above 90%	100%
85 to 89%	80%
80 to 84%	60%
76 to 79%	40%
75%	20%

.

Grading of students

Internal marks alone need to be sent to the University. External examination will be conducted and assessed by the University using mark system. The semester wise performance called SGPA(Semester Grade Point Average) and overall performance on completion of the programme called CGPA (Cumulative Grade Point Average) of a student will be made by the University by taking the marks of internal and external assessments using a 7 Point Indirect Grading System (table 10) as per KUCBCSSUG 2014. Finally an overall letter grade (called Cumulative Grade) for the entire programme will be awarded by the University. For the detailed calculations of SGPA, CGPA & Overall letter grade readers are directed to refer KUCBCSSUG 2014.

Table 10: Seven Point Indirect Grading System**.**

% Marks	Grade	Interpretation	Grade point average	Range of grade	Class
90 and above	A+	Outstanding	6	5.5 - 6	First class with distinction
80 to 89	A	Excellent	5	4.5 - 5.49	
70 to 79	B	Very good	4	3.5 - 4.49	First class
60 to 69	C	Good	3	2.5 - 3.49	
50-59	D	Satisfactory	2	1.5 - 2.49	Second class
40-49	E	Adequate	1	0.5 - 1.49	Pass
Below 40	F	Failure	0	0.0 - 0.49	Fail

Distribution of Marks & type of questions for Core (Physics), Complementary (Physics) & Open (Physics) courses.

Table 11. Type of questions & Marks for external examination (theory) - Core Physics

Type of questions	No. of questions	No. of questions to be answered	Marks for each question	Marks
Very short answer	4	4	1	4
Short answer	10	7	2	14
Short essay/Problems	6	4	3	12
Long essay	4	2	5	10
Total	24	17		40

Distribution of marks & appointment of examiners for the external practical examination (Core Physics):

The distribution of marks for the external practical examination of core (Physics) will be decided by the concerned Board of examinations. There will be two examiners for the external practical and project examination.

Table 12. Type of Questions & Marks for external examination (theory) - Complementary Physics:

Type of questions	No. of questions	No. of questions to be answered	Mark for each question	Marks
Very short answer	5	5	1	5
Short answer	6	4	2	8
Short essay/Problems	5	3	3	9
Long essay	4	2	5	10
Total	20	14		32

Distribution of marks & appointment of examiners for the external practical examination (Complementary Physics):

Distribution of marks for the external practical examination of complementary physics will be decided by the concerned Board of Examinations. There will be two examiners for the external practical examination.

Table 13. Type of Questions & marks for external examination (theory) - Open course (Physics):

Type of questions	Total questions	No. of questions to be answered	Marks for each question	Marks
Very short answer	5	5	1	5
Short answer	5	3	2	6
Short essay/Problems	5	3	3	9
Total	15	11		20

KANNUR UNIVERSITY

(Abstract)

B.Sc. Physics Programme-Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad.C2/12291/2019 Dated, Civil Station P.O 21/ 06/ 2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated 10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O No. Acad.C2/429/2017 Vol.II dated 03-06-2019
4. The Minutes of the Meeting of the Board of Studies in Physics(UG) held on 06/06/2019
5. Syllabus of B.Sc Physics Programme Submitted by the Chairperson, Board of Studies in Physics (UG) dated 12.06.2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG Programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies and Workshops, discussion etc.

3. The Revised Regulation for UG Programmes in Affiliated colleges under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently ,as per paper read (4) above, the Board of Studies in Physics (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core, Complementary Elective & Generic Elective Course of B.Sc. Physics Programme to be implemented with effect from 2019 Admission.

5. As per paper read (5) above, the Chairperson, Board of Studies in Physics (UG) submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers ofB.Sc. Physics Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper(Core/Complementary Elective/Generic Elective Course) of B.Sc. Physics Programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Paper of B.Sc. Physics Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
For REGISTRAR

To

The Principals of Colleges offering B.Sc. Physics programme

Copy to:-
1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in B.Sc. Physics (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer(for uploading in the website)
6. SF/DF/FC

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

Forwarded/By Order

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES -PHYSICS (UG)

SYLLABUS FOR PHYSICS CORE, COMPLEMENTARY ELECTIVE & GENERIC ELECTIVE COURSES OF BSc PROGRAMME

CHOICE BASED CREDIT AND SEMESTER SYSTEM
(OBE – Outcome Based Education – system)

(2019 ADMISSION ONWARDS-)

KANNUR UNIVERSITY

VISION AND MISSION STATEMENTS

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady Taluk of Wayanad Revenue District.

Mission:

- ➢ To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- ➢ To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- ➢ To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher educationand to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- ➢ To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- ➢ To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- ➢ To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY
PROGRAMME OUTCOMES (PO)

PO 1.Critical Thinking:

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.

1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.

1.3 Develop self-critical abilities and the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.

2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.

2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3.Effective Communication:

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language

3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.

3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.

4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.

4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

The Board of Studies in Physics (UG) strives to offer students with a solid scientific and technical foundation and to promote them to build up vision in tackling problems and seeking solutions through the reformed outcome based curriculum and syllabus. This curriculum and syllabus clearly states the graduate attributes/outcomes and is developed after numerous workshops and discussions with different stakeholders.

The B.Sc. Physics degree course will open up exciting higher studies/employment opportunities for students. The course offers essential knowledge in theoretical Physics as well as practical knowledge to the students to apply it in real-life state of affairs. B.Sc. Physics aspirant needs to have basic knowledge in mathematical tools and techniques to pursue various courses in this programme.

The teachers should place much greater emphasis on supporting curricular activities aimed for achieving the desired attributes and programme outcomes, even if these are not part of the end semester examinations. Rote learning should be discouraged. The act of seeking new information and creation of new knowledge should be encouraged.

Appropriate three-day induction programmes/bridge courses can be offered to the first year B.Sc. Physics students to cope with the UG programme in Physics. The concerned Department/Institution has a flexibility to frame/adopt the bridge courses by adjusting the teaching hours accordingly.

The Board of Studies in Physics (UG) considered the introduction of outcome based curriculum and syllabus in affiliated colleges for the UG programme in Physics and resolved to implement the same from 2019 admission onwards.

Sheela M Joseph
Chairperson
Board of Studies,Physics (UG)
Kannur University

Kannur University
Programme Specific Outcome of BSc Physics Programme

PSO1: Understand and apply the principles of Classical mechanics, Quantum mechanics, Thermodynamics, Nuclear physics and Electrodynamics

PSO 2: Understand and apply the principles of Solid state physics, Optics, Photonics and Spectroscopy

PSO 3: Understand the principles of Electronics, Design and test electronic circuits

PSO 4: Understand and apply the principles of Mathematical Physics and Computational Physics and do Error analysis in measurements

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KANNUR UNIVERSITY BSc PHYSICS PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

(BSc:Common English: 22, Additional Common: 16, Core: 56,

First complementary Elective: 12,Second complementary Elective:12, Generic Elective: 2)

Semester	Course Title*	Credits	Hours per week	Total Credits	Total Hours
I	Common Course(English)I	4	5	18	25
	Common Course(English)II	3	4		
	Common Course (Addl Lang) VII	4	4		
	Core Course(Theory 1B01PHY)	2	2		
	Core Course(Practical 4B05PHY*)	-	2		
	First Complementary Elective Theory Maths I	3	4		
	Second Complementary Elective Theory I	2	2		
	Second Complementary Elective Practical I *	-	2		
II	Common Course(English)III	4	5	18	25
	Common Course(English)IV	3	4		
	Common Course (Addl Lang) VIII	4	4		
	Core Course(Theory 2B02PHY)	2	2		
	Core Course(Practical 4B05PHY*)	-	2		
	First Complementary Elective Theory Maths II	3	4		
	Second Complementary Elective Theory II	2	2		
	Second Complementary Elective Practical I *	-	2		
III	Common Course(English)V	4	5	16	25
	Common Course (Addl Lang) IX	4	5		
	Core Course(Theory 3B03PHY)	3	3		
	Core Course(Practical 4B05PHY*)	-	2		
	First Complementary Elective Theory Maths III	3	5		
	Second Complementary Elective Theory III	2	3		
	Second Complementary Elective Practical I *	-	2		
IV	Common Course(English)VI	4	5	24	25
	Common Course (Addl Lang) X	4	5		
	Core Course(Theory 4B04PHY)	3	3		
	Core Course(Practical 4B05PHY)	4	2		
	First Complementary Elective Theory Maths IV	3	5		
	Second Complementary Elective Theory IV	2	3		
	Second Complementary Elective Practical I	4	2		

V	Generic Elective Course!!	2	2	17	25
	Core Course (Theory-5B06PHY)	4	4		
	Core Course (Theory-5B07PHY)	4	4		
	Core Course (Theory-5B08PHY)	4	4		
	Core Course (Theory-5B09PHY)	3	3		
	Core Course (Practical II-6B15PHY**)	-	4		
	Core Course (Practical III 6B16PHY**)	-	4		
VI	Core Course (Theory-6B10PHY)	4	4	27	25
	Core Course (Theory-6B11PHY)	4	4		
	Core Course (Theory-6B12PHY)	4	4		
	Core Course (Theory-6B13PHY)	3	3		
	Discipline Specific elective 6B14PHY)	2	2		
	Core Course (Practical II-6B15PHY)	4	4		
	Core Course (Practical III 6B16PHY)	4	4		
	Project&Study Tour*** 6B17PHY	2	-		
Total				120	150

* External examination will be conducted at the end of Fourth Semester
** External examination will be conducted at the end of Sixth Semester
*** Study tour report (Industrial visit/ Scientific Institution visit) should be submitted along with the project report
!!Generic elective courses offered by Physics is shown in PART C

First Complementary Elective (Compulsory): Mathematics

Second Complementary Elective: Chemistry/ Electronics/ Computer Science

PART A:
PHYSICS CORE COURSES
WORK AND CREDIT DISTRIBUTION

(2019 ADMISSION ONWARDS)

Course code	Course title	Sem	Hours per week	Credit	Exam hours	Marks		
						CE	ESE	Total
1B01PHY	MECHANICS I	I	2	2	3	10	40	50
2B02PHY	MATHEMATICAL PHYSICS AND ERROR ANALYSIS	II	2	2	3	10	40	50
3B03PHY	MECHANICS II	III	3	3	3	10	40	50
4B04PHY	ELECTRONICS I	IV	3	3	3	10	40	50
4B05PHY	GENERAL PHYSICS PRACTICAL I*	IV	2	4	3	10	40	50
5B06PHY	QUANTUM MECHANICS	V	4	4	3	10	40	50
5B07PHY	ELECTROSTATICS AND MAGNETOSTATICS	V	4	4	3	10	40	50
5B08PHY	THERMODYNAMICS AND STATISTICAL MECHANICS	V	4	4	3	10	40	50
5B09PHY	ELECTRONICS II	V	3	3	3	10	40	50
6B10PHY	SOLID STATE PHYSICS AND SPECTROSCOPY	VI	4	4	3	10	40	50
6B11PHY	OPTICS AND PHOTONICS	VI	4	4	3	10	40	50
6B12PHY	NUCLEAR, PARTICLE & ASTROPHYSICS	VI	4	4	3	10	40	50
6B13PHY	ELECTRODYNAMICS AND CIRCUIT THEORY	VI	3	3	3	10	40	50
6B14PHY	DISCIPLINE SPECIFIC ELECTIVE !	VI	2	2	3	10	40	50
6B15PHY	GENERAL PHYSICS PRACTICAL II**	VI	4	4	3	10	40	50
6B16PHY	ELECTRONICS PRACTICAL III**	VI	4	4	3	10	40	50
6B17PHY	PROJECT*** &STUDY TOUR	VI	-	2	-	5	20	25

*****External examination will be conducted at the end of Fourth Semester
** External examination will be conducted at the end of Sixth Semester
***External examination will be conducted at the end of Sixth Semester.

Study tour report (Industrial visit/ Scientific Institution visit) should be submitted along with the project report.

!Options available are listed in table I

Table I

COURSE CODE	COURSE TITLE
6B14 PHY(1)	**PYTHON PROGRAMMING**
6B14 PHY(2)	**NANOSCIENCE**
6B14 PHY(3)	**MATERIAL SCIENCE**
6B14 PHY(4)	**COSMOLOGY**
6B14 PHY(5)	**PLASMA PHYSICS**

EVALUATION

ASSESSMENT	WEIGHTAGE
EXTERNAL	80%
INTERNAL	20%

CONTINUOUS INTERNAL ASSESSMENT-THEORY

COMPONENT	WEIGHTAGE	REMARKS
COMPONENT 1 Test paper	60%	Best of two
COMPONENT 2 Open book problem solving/Seminar/Viva	40%	One

CONTINUOUS INTERNAL ASSESSMENT- PRACTICAL

COMPONENT*	WEIGHTAGE**	REMARKS
COMPONENT 1 Lab Skill	25%	
COMPONENT 2 Punctuality	25%	
COMPONENT 3 Record	25%	A logbook of practicals should be maintained which must include theory,observation,tabulation,calculation ,graph ,result etc
COMPONENT 4 Examination	25%	A model exam should be conducted before external examination & considered for internals

CONTINUOUS INTERNAL ASSESSMENT- PROJECT

COMPONENT*	WEIGHTAGE**	REMARKS
COMPONENT 1 Topic	20%	Relevance of topic
COMPONENT 2 Punctuality	20%	
COMPONENT 3 Scheme & report	20%	
COMPONENT 4 Viva-voce	20%	
COMPONENT 5 Study tour report	20%	Industrial visit/ Scientific Institution visit

KANNUR UNIVERSITY

(Abstract)

Bachelor of Business Administration(Travel &Tourism Management) (BBA/BBA-TTM) Programme - Scheme, Syllabi and Model Question Papers - Core/Complementary/Open Courses under Choice Based Credit Semester System-Implemented with effect from 2014 Admission - Orders issued.

ACADEMIC BRANCH

U.O No. Acad/C1/2881/2014 Dated, Civil Station (PO), 3 -05-2014

Read: 1. U.O.No.Acad/C2/2232/2014 dated 14/03/2014
2. Minutes of the meeting of the Board of Studies in Management Studies (Cd) held on 24-03-2014
3. Minutes of the meeting of the Faculties of Commerce and Management Studies held on 28-03-2014
4. Letter dated 7-04-2014 from the Chairman, Board of Studies in Management Studies (Cd)

ORDER

1. The Revised Regulations for Choice based Credit Semester System have been implemented in this University with effect from 2014 admission vide paper read (1) above.

2. As per the paper read (2) above, Board of Studies in Management Studies (Cd) finalized the Scheme, Syllabi and Model Question Papers of BBA/BBA-TTM Programmes under Choice Based Credit Semester System with effect from 2014 admission.

3.As per the paper read (3) above the meeting of Faculty of Commerce and Management Studies approved the Scheme, Syllabi and model question papers for BBA/BBA(TTM) w.e.f.2014 admission.

4.As per the paper read (4) above, the Chairman, Board of Studies in Management Studies (Cd) vide paper read (4) above, has forwarded the Scheme, Syllabi and Model Question Papers for BBA/ BBA (TTM) Programmes for implementation with effect from 2014 admission.

5. The Vice Chancellor after considering the matter in detail and in exercise of the powers of Academic Council conferred under section 11 (1) of Kannur University Act 1996 and all other enabling provisions read together with has accorded sanction to implement Scheme, Syllabus and Model Question Papers (Core/Complementary/Open Courses) for BBA/BBA(TTM) under Choice Based Credit Semester System with effect from 2014 admission subject to report Academic Council.

6. Orders are, therefore, issued accordingly.

7. The Implemented Scheme, Syllabi and Model Question Papers are appended.

Sd/-
DEPUTY REGISTRAR (Academic)
For REGISTRAR

To
The Principals of Colleges offering BBA/BBA(TTM) Courses.

5/5/14

(PTO)

1. The Examination Branch (through PA to CE)
2. PS to VC/PA to /PA to Registrar /
3. Chairman BOS Management Studies (Cd)
4. PA to CE
5. DR/AR I Academic
6. SF/DF/FC.

Forwarded/ by Order

Section Officer

For more details; log on www.kannur university.ac.in

KANNUR UNIVERSITY

(U.O.No.Acad/C1/2881/2014,dt.3-05-2014)

SCHEME AND SYLLABI OF BACHELOR OF BUSINESS ADMINISTRATION (BBA)

UNDER CBCSS PATTERN

(KUCBCSSUG 2014)

KANNUR UNIVERSITY
SCHEME AND SYLLABI OF BACHELOR OF BUSINESS ADMINISTRATION UNDER KUCBCSSUG 2014

The Regulation of UG Programme (KUCBCSS UG 2014) is available in the university website. Following are the additional information with regard to BBA Programme under Choice Based Credit Semester System to be implemented in the academic session 2014-15.

1. **Title of the programme:** This DEGREE shall be called BACHELOR OF BUSINESS ADMINISTRATION .
2. **Eligibility for admission:** Admission shall be made from the Candidates who have passed the Plus Two or equivalent examination with 45% for non commerce subject (not applicable to SC/ST Students) and pass mark for Commerce subject. A weightage of 25 marks be given for each Commerce subject studied by the Candidate in the qualifying examination subject to a maximum of 75 marks.
3. **Duration of the programme:** The duration of the BBA programme of study is three academic years with six semesters.
4. **Medium of Instruction:** The medium of instruction and examination shall be English.

6.0 The total credits			**Number**	**Credits**
1	**Common Courses**	English	4 courses	14
		Additional Language	2 courses	8
		General	4 courses	16
2	**Complementary Courses**		5 courses	15
3	**Open Courses**		1 course	2
4	**Core Courses**	**Courses**	19 courses	62
		Industrial visit and report	1 course	1
		Placement Training & Project report	1 course	2
Total			**37**	**120**

Table of Common Courses (English and Additional Language) for BBA

Sl. No	Course Code	Type of course	Course Title	Semester	Hours/ Week	Credits	Marks
1	1A01ENG	Common I	English I	I	5	4	
2	1A02 ENG	Common II	English II	I	4	3	
3	1A07---	Common III	Additional Language I	I	5	4	
4	2A03ENG	Common IV	English III	II	5	4	
5	2A04ENG	Common V	English IV	II	4	3	
6	2A08---	Common VI	Additional Language II	II	5	4	

Table of Common Courses (General Courses) for BBA Programmes

Sl. No	Course Code	Type of course	Course Title	Semester	Hours/ Week	Credits	Marks
1	3A11 COM/BBA	Common XI	IT in Business	III	5	4	**E – 30 P - 10 I - 10 T – 50**
2	3A12 COM/BBA	Common XII	Numerical Skills	III	4	4	**E - 40 I - 10 T - 50**
3	4A13COM/BBA	Common XIII	Entrepreneurship Development & Project Management	IV	5	4	**E - 40 I - 10 T - 50**
4	4A14 COM/BBA	Common XIV	Business Ethics & Corporate Social Responsibility	IV	4	4	**E - 40 I - 10 T - 50**

E**: External P: Practical I : Internal T : Total**

Table of Complementary Courses for BBA Programmes

Sl. No	Course Code	Type of course	Course Title	Semester	Hours/ Week	Credits	Marks
1	1C01 BBA	Complementary I	Business Statistics	I	5	3	**E - 40 I - 10 T - 50**
2	1C02 BBA	Complementary II	Business Economics	I	3	3	**E - 40 I - 10 T - 50**
3	2C03 BBA	Complementary III	Quantitative Techniques for Business Decisions	II	5	3	**E - 40 I - 10 T - 50**
4	3C04 BBA	Complementary IV	Legal Aspects of Business	III	5	3	**E - 40 I - 10 T - 50**
5	4C05 BBA	Complementary V	Business Research Methods	IV	4	3	**E - 40 I - 10 T - 50**

Table of Open Courses for BBA Programmes

Sl. No	Course Code	Type of course	Course Title	Semester	Hours/ Week	Credits	Marks
1	5D01 BBA	Open I	Basic Accounting/Financial System and Services/Disaster Management	V	2	2	**E - 40 I - 10 T - 50**

Table of Core Courses for BBA Programmes

Sl. No	Course Code	Type of course	Course Title	Semester	Hours/ Week	Credits	Marks
1	1B01 BBA	Core I	Principles & Practice of Management	I	3	3	**E - 40 I - 10 T - 50**
2	2B02 BBA	Core II	Business Environment	II	3	3	**E - 40 I - 10 T - 50**
3	2B03 BBA	Core III	Business Communication	II	3	3	**E - 40 I - 10 T - 50**
4	3B04 BBA	Core IV	Financial Accounting	III	5	4	**E - 40 I - 10 T - 50**
5	3B05 BBA	Core V	Operations Management	III	4	3	**E - 40 I - 10 T - 50**
6	3B06 BBA	Core VI	Managerial Skill Development Course (MSDC)	III	2	1	**I - 25 T - 25**
7	4B07 BBA	Core VII	Marketing Management	IV	4	3	**E - 40 I - 10 T - 50**
8	4B08 BBA	Core VIII	Corporate Accounting	IV	5	3	**E - 40 I - 10 T - 50**
9	4B09 BBA	Core IX	Financial Management	IV	4	3	**E - 40 I - 10 T - 50**
10	4B10 BBA	Core X	Industrial Visit and Report (Study Tour)	IV		1	**I - 25 T - 25**
11	5B11 BBA	Core XI	Cost Accounting	V	5	4	**E - 40 I - 10 T - 50**
12	5B12 BBA	Core XII	Human Resource Management	V	5	4	**E - 40 I - 10 T - 50**
13	5B13 BBA	Core XIII	Banking Theory, Law & Practice	V	4	3	**E - 40 I - 10 T - 50**

14	5B14 BBA	Core XIV	Organisational Behaviour	V	5	4	**E - 40 I - 10 T - 50**
15	5B15 BBA	Core XV	Retail Management	V	4	3	**E - 40 I - 10 T - 50**
16	6B16 BBA	Core XVI	Strategic Management	VI	5	4	**E - 40 I - 10 T - 50**
17	6B17 BBA	Core XVII	Capital Market & Investment Management	VI	5	4	**E - 40 I - 10 T - 50**
18	6B18 BBA	Core XVIII	International Business	VI	4	3	**E - 40 I - 10 T - 50**
19	6B19 BBA	Core XIX	Event Management	VI	4	3	**E - 40 I - 10 T - 50**
20	6B20 BBA	Core XX	Management Accounting	VI	5	4	**E - 40 I - 10 T - 50**
21	6B21 BBA	Core XXI	Placement Training & Project Report	VI	3	2	**E - 40 I - 10 T - 50**

TotalMarksDistribution

1.	**English**	200
2.	**Additional Languages**	**100**
3.	Common Course	200
4.	**Open Course**	**50**
5.	**Core Course**	**1000**
6.	**Complementary**	**250**
	Total	**1800**

STRUCTURE OF BBA DEGREE PROGRAMME

Semester I

Sl. No.	Course Code	Type of course	Course Title	Hours/ Week	Hours/ Sem	Credits	Exam Duration
1	1A01ENG	Common I	English I	5	90	4	3
2	1A02 ENG	Common II	English II	4	72	3	3
3	1A07---	Common III	Additional Language I	5	90	4	3
4	1B01 BBA	Core I	Principles & Practice of Management	3	54	3	3
5	1C01 BBA	Complementary I	Business Statistics	5	90	3	3
5	1C02 BBA	Complementary II	Business Economics	3	54	3	3
		Total	**Semester II**	**25**	**450**		

Sl. No	Course Code	Type of course	Course Title	Hours/ Week	Hours/ Sem	Credits	Exam Duration
1	2A03ENG	Common IV	English III	5	90	4	3
2	2A04ENG	Common V	English IV	4	72	3	3
3	2A08---	Common VI	Additional Language II	5	90	4	3
4	2B02 BBA	Core II	Business Environment	3	54	3	3
5	2B03 BBA	Core III	Business Communication	3	54	3	3
6	2C03 BBA	Complementary III	Quantitative Techniques for Business Decisions	5	90	3	3
			Total	**25**	**450**	**20**	

Semester III

Sl. No	Course Code	Type of course	Course Title	Hours/ Week	Hours / Sem	Credits	Exam Duration
1	3A11/ COM/ BBA	Common XI	IT in Business	Theory	3	54	3	3
				Practical	2	36	1	
2	3A12/ COM/	Common XII	Numerical Skills	4	72	4	3
3	3B04 BBA	Core IV	Financial Accounting	5	90	4	3
4	3B05 BBA	Core V	Operations Management	4	72	3	3
5	3B06 BBA	Core VI	Managerial skill Development Course (MSDC)	2	36	1	
6	3C04 BBA	Complementary IV	Legal Aspects of Business	5	90	3	3
			Total	**25**	**450**	**19**	

Semester IV

Sl. No	Course Code	Type of course	Course Title	Hours/ Week	Hours/ Sem	Credits	Exam Duration
1	4A13COM/BBA	Common XIII	Entrepreneurship Development & Project Management	4	72	4	3
2	4A14COM/BBA	Common XIV	Business Ethics and CSR	4	72	4	3
3	4B07 BBA	Core VII	Marketing Management	4	72	3	3
4	4B08 BBA	Core VIII	Corporate Accounting	5	90	3	3
5	4B09 BBA	Core IX	Financial Management	4	72	3	3
6	4B10 BBA	Core X	Industrial Visit & Report(Study Tour)			1	
7	4C05 BBA	Complementary V	Business Research Methods	4	72	3	3
Total				**25**	**450**	**21**	

Semester V

Sl. No	Course Code	Type of course	Course Title	Hours/ Week	Hours/ Sem	Credits	Exam Duration
1	5B11 BBA	Core XI	Cost Accounting	5	90	4	3
2	5B12 BBA	Core XII	Human Resource Management	5	90	4	3
3	5B13 BBA	Core XIII	Banking Theory Law & Practice	4	72	3	3
4	5B14 BBA	Core XIV	Organisational Behaviour	5	90	4	3
5	5B15 BBA	Core XV	Retail Management	4	72	3	3
6	5D01 BBA	Open I		2	36	2	2
Total			**25**		**450**	**20**	

Semester VI

Sl. No	Course Code	Type of course	Course Title	Hours/ Week	Hours / Sem	Credits	Exam Duration
1	6B16 BBA	Core XVI	Strategic Management	4	72	4	3
2	6B17 BBA	Core XVII	Capital Market & Investment Management	5	90	4	3
3	6B18 BBA	Core XVIII	International Business	4	72	3	3
4	6B19 BBA	Core XIX	Event Management	4	72	3	3
5	6B20 BBA	Core XX	Management Accounting	5	90	4	3
6	6B21 BBA	Core XXI	Placement Training & Project Report	3	54	2	
Total				**25**	**450**	**20**	

5. **Open Courses:** BBA Students shall take one open courses (2Credits) offered by other departments in the V semester.

6. **Managerial Skill Development Course (MSDC):** The course on Management Development is intended for developing the current/latest business knowledge, understanding of the economic situation of the nation and soft skills/employability skills of the BBA students. This course shall be handled by a teacher having genuine interest and latest knowledge in current business, economic survey and union budget. The course shall be conducted in such a way that the above knowledge areas will be covered using various methodologies such as presentations, group discussions, assignments quiz competitions etc. that will enhance the soft/employability skills. The maximum marks for the course shall be 25. The evaluation of the course will be done internally on the basis of a written examination for 20 marks and presentations, assignment and attendance for 5 marks.

7. **Industrial Visit & Project Report:** Every student shall prepare and submit a Report based on industrial visits during the IV Semester under the guidance of a faculty member one month before the end of the semester. Evaluation shall be done internally. The maximum marks for the course shall be 25.

8. **Placement Training & Project Report**

During the sixth semester the candidate shall do a research project on a business/ management topic.

Maximum four students as group can take up a topic and the students in consultation and with the consent of the assigned guide may identify a topic and do research on that topic. To have more academic freedom and flexibility, the project should not be attached to any organization.

The candidates together shall prepare and submit a project report to the Department. The report shall be printed and spiral bound with not less than 50 A4 size pages. The project report should be submitted to the Head of the Department on the last working day of the sixth semester.

Project work shall have the following stages

- Project proposal presentation
- Field work and data analysis
- Report writing
- Draft project report presentation
- Final project report submission

The candidate shall prepare at least two copies of the report: one copy for submission to the Department and one copy for the student which he/she has to bring with him/her at the time of viva voce. More copies may be prepared if the guide or both asks for one copy.

Structure of the report

Title page

Certificate from guide countersigned by HOD
Acknowledgements
Contents

Chapter I: Introduction (Organization profile, Research problem, objectives of the study, Research methodology etc.)
Chapter II: Review of literature

Chapters III: and IV: Data Analysis (2 or 3 chapters)
Chapter V: Summary, Findings and Recommendations.
Appendix (Questionnaire, specimen copies of forms, other exhibits etc.)
Bibliography (books, journal articles etc. used for the project work).

Evaluation of project report
The project report shall have internal and external evaluations:

Maximum 50 marks shall be awarded by internal panel of teachers. Out of the internal 50 marks 30 marks shall be given on the basis of the draft report presentation and 20 marks be given for the participation and contribution of the student in various stages of project.
Maximum 50 marks shall be awarded by external examiners. Out of the external 50 marks,

25 marks shall be given for the project report evaluation and 25 marks shall be given for the performance in viva voce examination.

9. **Requirement for passing the course:** For passing the BBA degree program the student shall be required to achieve a minimum of 120 credits of which 38 credits shall be from common courses, 65 credits from core courses, 15 credits from complementary courses and 2 credits from open courses.

KANNUR UNIVERSITY
(Abstract)

Bachelor of Business Administration (BBA) Programme- Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

ACADEMIC BRANCH

No.Acad.C1/12392/2019 Dated, Civil Station P.O.,22 .06. 2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated,10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O. No.Acad.C2/429/2017 Vol.II dated,03-06-2019.
4. The Minutes of the Meeting of the Board of Studies in Management Studies (UG) held on 07.06.2019
5. Syllabus of BBA Programme , Submitted by the Chairperson, Board of Studies in Management Studies (UG), dated , 13.06.2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies ,Workshops, discussions etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Management Studies (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core,

Complementary Elective & Generic Elective Course of BBA Programme to be implemented with effect from 2019 Admission.

5. Further, as per paper read (5) above, the Chairperson, Board of Studies in Management Studies (UG) has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of BBA Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Papers (Core/Complementary Elective/Generic Elective Course) of BBA Programme under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Papers of BBA Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR(ACADEMIC)
For REGISTRAR

To
The Principals of Colleges offering BBA Programme

Copy to:-
1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Management Studies (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer(for uploading in the website)
6. SF/DF/FC

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

Forwarded/By Order

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES, Management Studies (UG)

BACHELOR OF BUSINESS ADMINISTRATION PROGRAMME

(BBA)

CHOICE BASED CREDITAND SEMESTER SYSTEM
(CBCSS)
Under
Outcome Based Education
(OBE)

(2019 ADMISSION ONWARDS)

Kannur University

Vision and Mission Statement*

Proposed Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady taluk of Wayanad Revenue District.

Proposed Mission:

- To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher educationand to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

Kannur University
Programme Outcomes

PO 1.Critical Thinking:

1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.
3. Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.
2. Develop and practice gender sensitive attitudes, environmental awareness, the ability to understand and resist various kinds of discriminations and empathetic social awareness about various kinds of marginalisation.
3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3.Effective Communication:

1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language
2. Learn to articulate analysis, synthesis, and evaluation of situations and themes in a well-informed manner.
3. Generate hypothesis and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

1. Perceive knowledge as an organic comprehensive, interrelated and integrated faculty of the human mind
2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

Preface

The BBA Programme aims at equipping the students with new ideas and changes in the sphere of business and management. It is imperative to update the syllabus to impart the latest developments in business world and changing the view of our students about the global changes.

In the light of UGC guidelines and Higher Education Council's directives, the programme curriculum has been revised to meet the requirements of the modern time. The present revision aims at familiarizing students with latest practices in management in the area of finance, human resource development and marketing. It also aims at acquiring skills in accounting and quantitative techniques in the areas of decision making and management, and building entrepreneurial spirit and competencies, and develops research aptitude.

Dr. BINDU K
Chairperson
Board of Management Studies UG

BACHELOR OF BUSINESS ADMINISTRATION PROGRAMME (BBA)

Programme Specific Outcome
of
Bachelor of Business Administration Programme

PSO 1:
Gain knowledge and skills in the areas of Management principles and practices, finance, human resource management and marketing

PSO 2:
Acquire knowledge in accounting principles and practices and its application in real business settings

PSO 3:
Apply concepts, theories, tools and techniques of statistics, information techniques, economics and numerical skills for decision making

PSO 4:
Build entrepreneurial spirit, develop research attitude and entrepreneurial competencies and managerial abilities

INDEX

KANNUR UNIVERSITY

BBA PROGRAMME

Credit and courses			
Sl no	Category of course	Number of courses	Credits
1	English Common course(ECC)	2×4 =8 2×3=6	14
2	Additional Common course(ACC)	2×4=8	8
3	General Awareness Course Ability Enhancement Course (AEC) Skill Enhancement Course (SEC)	 2×4=8 2×4=8	 16
4	Core course(CC) Discipline Specific Elective course (DSEC)		64
5	Complementary elective Course(CEC)	4×4=16	16
6	Generic Elective Course(GEC)	1×2=2	2
Total			**120**

Semester	**Course Title***	Type of Course	**Credits**	**Hours per week**	**Total Credits**	**Total Hours**
I	English Common Course I	ECC	4	5	22	25
	English Common Course II	ECC	3	4		
	Additional Common Course I	ACC	4	5		
	Core Course I. Principles and Practices of Management	CC	3	3		
	Complementary Elective Course 1 Statistics for business decisions	CEC	4	4		
	Complementary Elective Course 2 Managerial Economics	CEC	4	4		
II	English Common Course III	ECC	4	5	21	25
	English Common Course IV	ECC	3	4		
	Additional Common Course II	ACC	4	5		
	Core Course 2 Business Environment	CC	2	3		
	Core Course 3 Entrepreneurship Development	CC	4	4		
	Complementary Elective Course 3 Quantitative Technique for Business Decisions	CEC	4	4		

III	Skill Enhancement Course I Numerical skills	SEC	4	5	20	25
	Ability Enhancement Course I Personality development and communication skills	AEC	4	4		
	Core Course 4 Financial Accounting	CC	4	6		
	Core Course 5 Marketing Management	CC	4	5		
	Complementary Elective Course 4 Legal Aspects Business	CEC	4	5		
IV	Core Course 6 Human Resource Management	CC	4	6	21	25
	Core Course 7 Financial Management	CC	4	5		
	Core Course 8 Operations management	CC	4	5		
	Core Course 9 Industrial Visit and Report	DSEC	1	0		
	Skill Enhancement Course II IT Tools for business	SEC	4	5		
	Ability Enhancement Course II Environmental studies	AEC	4	4		
V	Core Course 10 Business Research Methods	CC	4	5	18	25
	Core Course 11 Accounting for management	CC	4	6		
	Core Course 12 Elective I	DSE	4	6		
	Core course 13 Elective II	DSE	4	6		
	Generic Elective Course	GEC	2	2		
VI	Core Course 14 Organisation Behaviour	CC	4	6	18	25
	Core Course 15 Banking Theory and Practice	CC	4	5		
	Core Course 16 Project Report and viva voce	CC	2	2		
	Core Course 17 Elective III	DSE	4	6		
	Core Course 18 Elective IV	DSE	4	6		
Total					120	150

PART A:
BBA CORE COURSES
WORK AND CREDIT DISTRIBUTION
(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
1B01BBA	Core Course I. Principles And Practice Of Management	I	3	3	3
2B02BBA	Core Course 2 Business Environment	II	3	2	3
2B03BBA	Core Course 3 Entrepreneurship Development	II	4	4	3
3B04BBA	Core Course 4 Financial Accounting	III	6	4	3
3B05BBA	Core Course 5 Marketing Management	III	5	4	3
4B06BBA	Core Course 6 Human Resource Management	IV	6	4	3
4B07BBA	Core Course 7 Financial Management	IV	5	4	3
4B08BBA	Core Course 8 Operations Management	IV	5	4	3
4B09BBA	Core Course 9 Industrial Visit And Report	IV	0	1	-
5B10BBA	Core Course 10 Business Research Methods	V	5	4	3
5B11BBA	Core Course 11 Accounting For Management	V	6	4	3
5B12BBA	Core 12 Elective I	V	6	4	3
5B13BBA	Core 13 Elective II	V	6	4	3
6B14 BBA	Core Course 14 Organisation Behaviour	VI	6	4	3
6B15BBA	Core Course 15 Banking Theory and Practice	VI	5	4	3
6B16BBA	Core Course 16 Project Report and Viva Voce Examination	VI	2	2	-
6B17BBA	Core Course 17 Elective III	VI	6	4	3
6B18BBA	Core Course 18 Elective IV	VI	6	4	3

DISCIPLINE SPECIFIC ELECTIVE COURSES

1 FINANCE

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5B12BBA	Advanced Financial Management	V	6	4	3
5B13BBA	Income tax law and Practice	V	6	4	3
6B17BBA	Insurance and Risk management	VI	6	4	3
6B18BBA	Stock And Commodity Markets	VI	6	4	3

II HUMAN RESOURCE MANAGEMENT

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5B12BBA	Human Resource Development	V	6	4	3
5B13BBA	Performance and Compensation Management	V	6	4	3
6B17BBA	Counselling and negotiation skills for managers	VI	6	4	3
6B18BBA	Organisational Change and Development	VI	6	4	3

III MARKETING

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5B12BBA	Consumer Behaviour	V	6	4	3
5B13BBA	Advertising and Brand Management	V	6	4	3
6B17BBA	Logistics Management	VI	6	4	3
6B18BBA	Retail Management	VI	6	4	3

PART B
GENERAL AWARENESS COURSE

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
3A11BBA	Skill Enhancement Course I Numerical Skills	III	5	4	3
3A12BBA	Ability Enhancement Course I Personality Development and Communication Skills	III	4	4	3
4A13BBA	Skill Enhancement Course II IT Tools For Business	IV	Theory 3 Practical 2	4	2
4A14BBA	Ability Enhancement Course II Environmental Studies	IV	4	4	3

PART C
COMPLEMENTARY ELECTIVE COURSE

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
1C01BBA	Statistics for business decisions	I	4	4	3
1C02BBA	Managerial Economics	I	4	4	3
2C03BBA	Quantitative Techniques For Business Decisions	II	4	4	3
3C04BBA	Legal Aspects Of Business	III	5	4	3

GENERIC ELECTIVE COURSE

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5D01BBA	Customer Relationship Management	V	2	2	2
5D02BBA	Service Marketing	V	2	2	2
5D03BBA	E- Commerce	V	2	2	2
5D04BBA	Event Management	V	2	2	2
5D05BBA	Disaster Management	V	2	2	2

EVALUATION

ASSESSMENT	WEIGHTAGE
EXTERNAL	4 (40 MARKS)
INTERNAL	1(10 MARKS)

*20 marks for theory and 20 marks for practical for courses having practical (IT in business)

CONTINUOUS INTERNAL ASSESSMENT

COMPONENT*	WEIGHTAGE**	REMARKS
COMPONENT1 INTERNAL TEST	2	TWO TESTS (6 MARKS)
COMPONENT 2 ASSINGMENT/SEMINAR/VIVA	1	INDIVIDUAL OR GROUP (4 MARKS)

EVALUATION FOR GENERIC ELECTIVE

ASSESSMENT	WEIGHTAGE
EXTERNAL	4 (20 MARKS)
INTERNAL	1(5 MARKS)

KANNUR UNIVERSITY
(Abstract)

BCA- Revised Scheme & Syllabus of Core and Open Courses under Choice Based Credit Semester System for Under Graduate Programme - implemented with effect from ***2014 admission - Orders Issued.***

ACADEMIC BRANCH

No. Acad/C2/7857/2014 (II) **Dated, Civil Station P.O, 04 - 07-2014**

Read: 1.U.O No. Acad/C2/2232/2014 dated 14-03-2014
2. Minutes of the meeting of the Board of Studies in Computer Science (UG) held on 27-01-2014
3. Minutes of the meeting of the Faculty of Technology held 01-04-2014
4. Letter dated 24.06.2014 from the Chairman, BOS in Computer Science (UG)

ORDER

1. The Revised Regulations for UG Programme under Choice based Credit & Semester System were implemented in this University with effect from 2014 admission as per paper read (1) above.

2. As per paper read (2) above the Board of Studies in Computer Science(UG) finalized the Scheme , Syllabus & model Question Papers for Core & open courses of BCA programme to be implemented with effect from 2014 admission..

3. As per read (3) above the Faculty of Technology (UG) held on 01.04.2014 approved Scheme, syllabus & model question papers for core & open courses of BCA programme to be implemented with effect from 2014 admission.

4. The Chairman, Board of Studies in Computer Sience (UG) vide paper read (4) above has submitted the finalized copy of Scheme, syllabus & Model question papers for core and open courses of BCA programme for implementation with effect from 2014 admission.

5. The Vice Chancellor, after examining the matter in detail, and in exercise of the powers of the Academic Council as per section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, has accorded sanction to implement the revised scheme, syllabus& model question papers of BCA Programme with effect from 2014 admission.

6. Orders, are therefore issued implementing the revised scheme, syllabus & model question papers for core & open courses of BCA programme under CBCSS with effect from 2014 admission subject to report to Academic Council

7. Implemented revised Syllabus is appended.

Sd/-
REGISTRAR

To

1. The Principals of Affiliated Colleges offering BCA Programme
2. The Examination Branch (through PA to CE)

Contd ... 2

Copy To:

1. The Chairman, BOS Computer Science (UG)
2. PS to VC/PA to PVC/PA to Registrar
3. DR/AR I Academic
4. Central Library
5. SF/DF/FC.

Forwarded/By Order

Section Officer

KANNUR UNIVERSITY
KANNUR
PIN-670567
Date:.....
MANGATTUPARA

❖ *For more details log on to www.kannur university.ac.in*

KANNUR UNIVERSITY

COURSE STRUCTURE AND SYLLABUS

for

UNDERGRADUATE PROGRAMME

In

COMPUTER APPLICATION

CORE & OPEN COURSES

Under

CHOICE BASED CREDIT AND SEMESTER SYSTEM

w. e. f. 2014 ADMISSION

General Guidelines, Curricula, Syllabus and Scheme of examinations for BCA Programme w.e.f 2014 admission onwards

BCA, an undergraduate programme under the Faculty of Technology of Kannur University, consists of Computer Application as core subject with one complementary subject (Mathematics). The duration of the programme is six semesters distributed over a period of three years. A semester consists of 90 working days including examination days distributed over a minimum of 18 weeks of five working days each.

COURSES

The number of courses required to complete the programme shall be 40. 'Course' means a segment of subject matter to be covered in a semester (traditionally referred to as paper). The courses include Common Courses including General Course, Complementary Course, Core Course and Open Course. The break-up of the courses is as follows:

Course Type	Total Numbers
Common courses (English + Additional language)	06
Common courses (General)	04
Complementary	04
Core	25
Open Course	01
Total	**40**

BCA - Course Structure

Semester –I

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course English I	5		4	50
2	Common course English II	4		3	50
3	Common course Additional Language I	5		4	50
4	Complementary I - Mathematics I	4		3	50
5	Common course - Informatics for Computer Application	3		4	50
6	Core course 1 - Programming in C	2	2	2	50
	Total	**23**	**2**	**20**	**300**

Semester –II

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course English III	5		4	50
2	Common course English IV	4		3	50
3	Common course Additional Language II	5		4	50
4	Complementary II - Mathematics II	4		3	50
5	Core course 2 -Digital Systems	3		2	50
6	Core course 3–Object Oriented Programming Using C++	2		3	50
7	Core course 4 -Lab – I (Programming in C)			2	25
8	Core course 5 -Lab –II (Programming in C++)		2	2	25
	Total	**23**	**2**	**23**	**350**

Semester –III

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course – Data Structure	4	3	4	50
2	Common course – Data Base Management System	4	2	4	50
3	Complementary III - Mathematics III	4		3	50
4	Core course 6 -Computer Organization	4		3	50
5	Core course 7 -Introduction to Microprocessors	4		3	50
	Total	**20**	**5**	**17**	**250**

Semester –IV

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course - Numerical Analysis	4		4	50
2	Complementary IV - Mathematics IV	4		3	50
3	Core course 8 - Operating system	4		3	50
4	Core course 9 -Java Programming	4		3	50
5	Core course 10 -Linux Administration	4		3	50
6	Core course 11- Lab –III Data Structure & DBMS			3	25
7	Core course 12 Lab – IV Java Programming, Shell Programming and Linux Administration		5	3	25
	Total	**20**	**5**	**22**	**300**

Semester –V

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Core course 13 - Software Engineering	4		3	50
2	Core course 14 - Data Communication & Networks	4		3	50
3	Core course 15 - Enterprise Java Programming	4	4	3	50
4	Core course 16 - C# and .Net Programming	3	4	2	50
5	Open course	2		2	25
	Total	**17**	**8**	**13**	**225**

Semester –VI

No.	Title of the Course	Hours/Week		Credit	Marks
		Theory	Practical		
1	Core course 17 - Web Technology	2		2	50
2	Core course 18 - Data Mining & Data Warehousing	4		3	50
3	Core course 19 - Elective I	4		3	50
4	Core course 20 - Elective II	4		3	50
5	Core course 21 - System Software	3		2	50
6	Core course 22 - Lab – V Enterprise Java Programming			3	25
7	Core course 23 - Lab – VI .Net Programming			3	25
8	Core course 24 - Lab – VII Web Technology		3	2	25
9	Core course 25 - Lab – VIII Project		5	4	50
	Total	**17**	**8**	**25**	**375**

Common course:

Means a course that comes under the category of courses, including compulsory English and additional language courses and a set of general courses. There are 10 common courses for the BCA programme. This includes four English courses (two courses each in first and second semesters), two additional language courses (one course each in first and second semesters) and four General courses (one in first semester, two in third semester and one in fourth semester). The syllabi of general courses include the topics related to Computer Application.

Complementary Course:

Means a course which is generally related to the core course (traditionally referred to as subsidiary paper). There is one Complementary subject for BCA programme. The total number of Complementary courses offered for BCA shall be FOUR. Complementary courses are offered during first to fourth semesters.

Core course:

Means a compulsory course in a subject related to a particular degree programme. The core subject Computer Application consists of 17 theory papers,7 practical papers and 1 project work. The semester wise list of Core and General Courses is given in the following tables.

Open course:

Means a course which can be opted by a student at his/her choice. There shall be one open course in core subjects in the fifth semester. The open course shall be open to all the students in the institution except the students in the parent department. For the purpose of open course B.Sc Computer Science and BCA should be considered as a single department. The students can opt for that course from any other department in the institution. Each department can decide the open course from a pool of three courses offered by the university. A department can offer only one open course in one semester.

Scheme Core, General and Open - Courses (BCA)

S.No	Sem	Course Code	Course Name	Hours/Week		Credits
				Theory	Practical	
1	I	1A11BCA	Informatics for Computer Application	3		4
2	I	1B01BCA	Programming in C	2	2	2
3	II	2B02BCA	Digital Systems	3		2
4	II	2B03BCA	Object Oriented Programming Using C++	2		3
5	II	2B04BCA	Lab – I Programming in C			2
6	II	2B05BCA	Lab – II Programming in C++		2	2
7	III	3A12BCA	Data Structure	4	3	4
8	III	3A13BCA	Database Management System	4	2	4
9	III	3B06BCA	Computer Organization	4		3
10	III	3B07BCA	Introduction to Microprocessors	4		3
11	IV	4A14BCA	Numerical Analysis	4		4
12	IV	4B08BCA	Operating System	4		3
13	IV	4B09BCA	Java Programming	4		3
14	IV	4B10BCA	Linux Administration	4		3
15	IV	4B11BCA	Lab–III Data Structures and DBMS			3
16	IV	4B12BCA	Lab–IV Java Programming, Shell Programming and Linux Administration		5	3

17	V	5B13BCA	Software Engineering	4		3
18	V	5B14BCA	Data Communication & Networks	4		3
19	V	5B15BCA	Enterprise Java Programming	4	4	3
20	V	5B16BCA	C# and .Net Programming	3	4	2
21	V	5D - -BCA	Open Course	2		2
22	VI	6B17BCA	Web Technology	2		2
23	VI	6B18BCA	Data Mining & Data Warehousing	4		3
24	VI	6B19BCA	Elective I	4		3
25	VI	6B20BCA	Elective II	4		3
26	VI	6B21BCA	System Software	3		2
27	VI	6B22BCA	Lab – V Enterprise Java Programming			3
28	VI	6B23BCA	Lab – VI .Net Programming			3
29	VI	6B24BCA	Lab – VII Web Technology		3	2
30	VI	6B25BCA	Lab – VIII Project		5	4

Scheme of Open course for 5th semester

Sl. No.	Sem	Course Code	Name of the Course	Hours / Week	Credit
1	V	5D01BCA	Programming with C	2	2
2	V	5D02BCA	Web Technology	2	2
3	V	5D03BCA	Database Management System	2	2

Electives:

Course 6B19BCA shall be selected from Section A and Course 6B20BCA shall be selected from Section B

No	Sem	Course Code	Course Name	Hours/Week	Credits
SECTION A					
1	VI	6B19BCA - E01	Information Security	4	3
2	VI	6B19BCA - E02	Information Storage System	4	3
3	VI	6B19BCA - E03	Mobile Communications	4	3
SECTION B					
4	VI	6B20BCA - E04	Algorithm Analysis and Design	4	3
5	VI	6B20BCA - E05	Network Programming	4	3
6	VI	6B20BCA - E06	Digital Image Processing	4	3

CREDITS

Each course shall have certain credits. For passing the BCA programme the student shall be required to achieve a minimum of 120 credits of which 38 credits (14 credits for English courses, 8 credits for Additional language courses and 16 credits for General courses) shall be from common courses. Minimum credits required for core, complementary and open courses put together are 82.

CREDIT DISTRIBUTION (LRP- BCA)

SUBJECT	SEMESTER	COMMON		GENERAL	CORE	COMPLEMENTARY	OPEN	TOTAL
		ENGLISH	ADDITIONAL		Computer Application	Maths		
COMPUTER APPLICATION	I	4+3	4	4	2	3	----	**20**
	II	4+3	4	----	2+3+2+2	3	----	**23**
	III	----	----	4+4	3+3	3	----	**17**
	IV	----	----	4	3+3+3+3+3	3	----	**22**
	V	----	----	----	3+3+3+2	----	2	**13**
	VI	----	----	----	2+3+3+3+2+3+3 +2+4	----	----	**25**
	TOTAL	**14**	**8**	**16**	**68**	**12**	**2**	**120**

ATTENDANCE

Minimum 75% attendance is compulsory for theory as well as practical courses, failing which a student is not eligible to appear for university examinations.

SEMINARS / ASSIGNMENTS

These are part of the curriculum and are to be critically assessed for Internal Assessment. Marks should be awarded based on the content, presentation and the effort put in by the student. The course teacher may give the topics for seminars / assignments. The topics shall be related to the syllabus of the course and is not meant for evaluation in the End Semester Examination.

PROJECT WORK

Every student of BCA Programme shall have to work on a project of four credits under the supervision of a faculty member as per the curriculum. The duration of the project is one year, starting in the fifth semester and submission of the dissertation (Project) at the end of sixth semester. Individual projects are recommended but in an instance where the number of supervising teachers is less, the project may be done as group. The maximum number of students in a group shall be limited to **FOUR**.

RECORDS

A record is compulsory for each practical course. The student will not be permitted to appear for practical examinations without certified practical records. The records are intended as observation records of the practical works done in the lab. The valuation of records, to be done internally, should be based on the effort and promptness of the student in practical works.

COURSE EVALUATION

The evaluation scheme for each course shall contain two parts

1. Internal Assessment (IA)
2. External Evaluation (End Semester Evaluation ESE)

20% weight shall be given to the internal evaluation. The remaining 80% weight shall be for the external evaluation. The distribution of marks for each course is given in following table:

Scheme of mark distribution of BCA programme

Courses		No of Courses	Marks Per Course			Total Marks
			Int	Ext	Total (Int + Ext)	
Common	English	4	10	40	50	200
	Addl. Language	2	10	40	50	100
	General	4	10	40	50	200
Complementary	Mathematics	4	10	40	50	200
Core	Theory	17	10	40	50	850
	Practical	7	5	20	25	175
	Project	1	10	40	50	50
Total						**1800**

Internal Assessment:

20% of the total marks in each course are for internal assessment. The marks secured for internal assessment only need be sent to university by the colleges concerned. The internal assessment shall be based on a predetermined transparent system involving written test, assignments/ seminars/ Viva and attendance in respect of theory courses and submissions and records, tests and attendance in respect of practical courses. Components with percentage of marks of Internal Evaluation of Theory Courses are-

Attendance	- 25%
Assignment/ Seminar/Viva	- 25%
Test paper	- 50%

For practical courses-

Attendance	- 25%
Submissions and Record	- 25%
Practical Test Paper	- 50%

(If a fraction appears in total internal marks, nearest whole number is to be taken)

Attendance of each course shall be evaluated as below

Attendance %	% Marks Allotted
Above 90%	100%
85 to 89%	80%
80 to 84 %	60%
75 to 79 %	40%
Less than 75%	Not eligible for University exam

Theory External Evaluation:

External evaluation carries 80% of marks. All question papers shall be set by the university. The external examination in theory courses is to be conducted with question papers set by external experts. The evaluation of the answer scripts shall be done by examiners based on a well-defined Scheme of valuation and answer keys provided by the University. Details regarding the End Semester Evaluation of core and open courses are

given below:

1. **Core Courses**

- Maximum Marks for each course - **40** Marks
- Duration of examination - **3** Hrs.

Sl.No	Type of Question	Marks	Number of Questions to be answered / total number of questions	Max. Marks
1	A bunch of 8 one word answer questions	0.5	08/08	4
2	Short answer	2	07/10	14
3	Short Essay /Programs	3	04/6	12
4	Essay Type	5	02/4	10

2. Open Course

- Maximum Marks for open course - **20** Marks
- Duration of examination - **2** Hrs.

Sl.No	Type of Question	Marks	Number of Questions to be answered / total number of questions	Max. Marks
1	A bunch of 8 one word answer questions	0.5	08/08	4
2	Short answer	2	03/05	6
3	Short Essay /Programs	3	02/04	6
4	Essay Type	4	01/02	4

External Evaluation Practical

External evaluation carries 80% of marks. All question papers shall be set by the

university. The external examination in practical courses shall be conducted by **TWO** external examiners appointed by the University. No practical examination will be conducted in odd semester. Practical examinations shall be conducted in the even semester (II, IV and VI). The Scheme of Examinations and Model Question Papers of all the theory and practical courses offered under core, general and open courses are include in the detailed syllabus. Practical examination assessment of different components may be taken as below.

Components	Part A	Part B
Program writing	3	3
Compilation/Execution (without errors)	2	2
Correct Output	2	2
Modification	1	1
Viva-voice	2	2
Total	**10**	**10**

Project Evaluation

Evaluation of the Project Work shall be done under Mark System at two stages:

1. Internal Assessment (supervising teachers will assess the project and award internal Marks)
2. External evaluation (external examiner appointed by the University)

Marks secured for the project will be awarded to candidates, combining the internal and external Marks. The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal (20% of the total)				External (80% of Total)		
Components	**% of Marks**	**Marks**		**Components**	**% of Marks**	**Marks**
Punctuality	20	02		Written Synopsis/Abstract	12.5	5
Relevance of topic System study / Design of tables	20	02		Content of the Project	12.5	5
				Quality of project work/Use of software/ tools	12.5	5
				Perfection of the work (Designs of tables/ Input & Output forms)	25	10
				Live demo	12.5	5
Project Report	30	03		Viva-Voce	25	10
Presentation & Viva-voce	30	03				
Total	**100**	**10**		**Total**	**100**	**40**

External Examiners will be appointed by the University in consultation with the Chairperson of the Board. Project evaluation shall be done along with the external examination of Core Practical lab IV & V in sixth semester.

Pass Conditions:

Submission of the project report and presentation of the student for viva are compulsory for the evaluation. No marks shall be awarded to a candidate if she/he fails to submit the project report for external evaluation. The student should get a minimum of 40 % marks for pass in the project. There shall be no improvement chance for the Marks obtained in the Project Report. In an instance of inability of obtaining a minimum of 40% marks, the project work may be re-done and the report may be re-submitted along with subsequent exams through parent department.

KANNUR UNIVERSITY

(Abstract)

Bachelor of Computer Application (BCA) Programme- Scheme, Syllabus and Pattern of Question Papers of Core and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad.C2/12371/2019/i Civil Station P.O, Dated 21/06/2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated 10-10-2017
2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O No.Acad.C2/429/2017 Vol.II dated 03-06-2019
4. The Minutes of the meeting of the Board of Studies in Computer Science (UG) held on 07-06-2019
5. Syllabus of Bachelor of Computer Application (BCA) submitted by the Chairperson, Board of Studies in Computer Science (UG) dated 13/06/2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies , Workshops, discussions etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Computer Science (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core & Generic Elective of Bachelor of Computer Application (BCA) Programme to be implemented with effect from 2019 Admission.

5. As per paper read (5) above, the Chairperson, Board of Studies in Computer Science (UG) has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of Bachelor of Computer Application (BCA) Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper(Core /Generic Elective Course) of Bachelor of Computer Application (BCA)programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to report before the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Paper of Bachelor of Computer Application (BCA) Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
For REGISTRAR

To

The Principals of Colleges offering BCA
(Bachelor of Computer Application programme)

Copy to:-

1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Computer Science (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer (for uploading in the website)
6. SF/DF/FC

Forwarded/By Order

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES-COMPUTER SCIENCE (UG)

SYLLABUS FOR
BACHELOR OF COMPUTER APPLICATIONS(B C A)
COREAND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT AND SEMESTERSYSTEM
(OBE-Outcome Based Education System)

(2019 ADMISSION ONWARDS)

Kannur University

Vision and Mission Statement

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manantavadytaluk of Wayanad Revenue District"

Mission:

- To produce anddisseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher educationand to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY

Programme Outcomes (PO)

PO 1.Critical Thinking:

1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.
3. Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2.Effective Citizenship:

1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.
2. Develop and practice gender sensitive attitudes, environmental awareness, the ability to understand and resist various kinds of discriminationsand empathetic social awareness about various kinds of marginalization.
3. Internalize certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernization of the post-colonial society.

PO 3.Effective Communication:

1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language
2. Learn to articulate analysis, synthesis, and evaluation of situations and themes in a well-informed manner.
3. Generate hypothesis and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

1. Perceive knowledge as an organic comprehensive, interrelated and integrated faculty of the human mind
2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

The Board of Studies in Computer Science bears deep academic venture and curriculum vision in forming the syllabus for undergraduate programme of Kannur University. The curriculum and syllabus pinpoint the creation of technical caliber of students through class room learning, workshops, seminars, presentations and summative and formative assessments.

As the present era moves with advancements in Science and Technology, the Board of Studies in computer Science of Kannur University predominantly emphasize employment-based curriculum formation to make the students extremely competent in global scenario.

Recent algorithms, Networks, Operating Systems etc. are the crux of vast developing technical dimensions of the computer science and Engineering. This curriculum and syllabus clearly states the graduate attributes/Outcomes and is developed after numerous workshops and discussions with different stakeholders.The Board of Studies in Computer Science has resolved to introduce the syllabus in the affiliated colleges for UG programme from 2019 admission onwards.I place records of gratitude to the members of board of studies,Faculties and stake holders to help me in the formation of syllabus.

Lt.ThomasScaria

Chairperson

Board of Studies, Computer Science (UG)
Kannur University

KANNUR UNIVERSITY

Programme Specific Outcome of B.Sc. Computer Science Programme

PSO1	Understand the concepts of Computer Science and Applications.
PSO2	Understand the concepts of System Software and Application Software.
PSO3	Understand the concepts of Algorithms and Programming.
PSO4	Understand the concepts of Computer Networks.
PSO5	Design, develop, implement and test software systems to meet the given specifications, following the principles of Software Engineering.

KANNUR UNIVERSITY

BCA PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

Semester	Course Title*	Credits	Hours per week	Total Credits	Total Hours
I	Common Course – English I	4	5	19	25
	Common Course – English II	3	4		
	Common Course – Additional Language I	4	5		
	General Awareness Course I – 1A11BCA Informatics for Computer Applications	2	3		
	Core Course I – 1B01BCA Programming In C	2	2		
	Core Course IV – 2B04BCA Lab I: Programming In C*	0	2		
	Complementary Elective (Mathematics I)	4	4		
II	Common Course – English III	4	5	22	25
	Common Course – English IV	3	4		
	Common Course – Additional Language II	4	5		
	Core Course II – 2B02BCA Digital Systems	3	3		
	Core Course III – 2B03BCAObject Oriented Programming Using C++	2	2		
	Core Course IV – 2B04BCA Lab I: Programming In C*	1	0		
	Core Course V – 2B05BCA Lab II: Programming In C++*	1	2		
	Complementary Elective (Mathematics II)	4	4		
III	General Awareness Course II – 3A12BCA Data Structures	4	4	18	25
	General Awareness Course III – 3A13BCA Database Management System	4	4		
	Core Course VI – 3B06BCAIntroduction to Microprocessors	3	4		
	Core Course VII – 3B07BCAJava Programming	3	4		
	General Awareness Course V – 4A15BCA Lab III: Data Structure and DBMS**	0	3		
	Core Course XI – 4B11BCA Lab IV: Java Programming, Shell Programming & Linux Administration**	0	2		
	Complementary Elective (Mathematics III)	4	4		

IV	General Awareness Course IV – 4A14BCA Discrete Mathematical Structures	4	4	21	25
	Core Course VIII – 4B08BCA Operating Systems	3	4		
	Core Course IX – 4B09BCAComputer Organization	3	4		
	Core Course X – 4B10BCA Linux Administration	3	4		
	General Awareness Course V – 4A15BCA Lab III: Data Structure and DBMS**	2	2		
	Core Course XI – 4B11BCA Lab IV: Java Programming, Shell Programming & Linux Administration **	2	3		
	Complementary Elective (Mathematics IV)	4	4		
V	Core Course XII – 5B12BCASoftware Engineering	3	3	16	25
	Core Course XIII – 5B13BCAEnterprise Java Programming	4	4		
	Core Course XIV – 5B14BCA- Python Programming	2	2		
	Core Course XV – 5B15BCAWeb Technology	2	2		
	Core Course XVI – 5B16BCA Discipline Specific Elective I	3	4		
	Core Course XXI– 6B21BCA Lab V: Enterprise Java Programming***	0	3		
	Core Course XXII– 6B22BCA Lab VI: Python Programming***	0	3		
	Core Course XXIII– 6B23BCA Lab VII: Web Technology***	0	2		
	General Elective Course	2	2		
VI	Core Course XVII – 6B17BCA Design and Analysis of Algorithm	4	4	24	25
	Core Course XVIII – 6B18BCA Introduction to Compiler	3	4		
	Core Course XIX – 6B19BCA Data Communication & Networks	3	3		
	Core Course XX – 6B20BCA Discipline Specific Elective II	3	3		
	Core Course XXI– 6B21BCA Lab V: Enterprise Java Programming***	2	2		
	Core Course XXII– 6B22BCA Lab VI: Python Programming***	3	2		
	Core Course XXIII– 6B23BCA Lab VII: Web Technology***	2	2		
	Core Course XXIV – 6B24BCA Project	4	5		
Total				120	150

*External examination will be conducted at the end of second semester

**External examination will be conducted at the end of fourth semester

***External examination will be conducted at the end of sixth semester

Complementary Elective: Mathematics

Total Marks of the Programme- 1850 Marks (Eng 200 Marks, Additional Common Course 100 Marks, Core 1350, Complementary Elective 200 Marks)

PART A

BCACORE COURSES
WORK AND CREDIT DISTRIBUTION

(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS	MARKS (INTERNAL + EXTERNAL)
1A11BCA	INFORMATICS FOR COMPUTER APPLICATIONS	1	3	2	3	10+40
1B01BCA	PROGRAMMING IN C	1	2	2	3	10+40
2B02BCA	DIGITAL SYSTEMS	2	3	3	3	10+40
2B03BCA	OBJECT ORIENTED PROGRAMMING USING C++	2	2	2	3	10+40
2B04BCA	LAB I: PROGRAMMING IN C	2	I SEM 2 II SEM 0	1	3	5+20
2B05BCA	LAB II: PROGRAMMING IN C++	2	2	1	3	5+20
3A12BCA	DATA STRUCTURES	3	4	4	3	10+40
3A13BCA	DATABASE MANAGEMENT SYSTEM	3	4	4	3	10+40
3B06BCA	INTRODUCTION TO MICROPROCESSORS	3	4	3	3	10+40
3B07BCA	JAVA PROGRAMMING	3	4	3	3	10+40
4A14BCA	DISCRETE MATHEMATICAL STRUCTURES	4	4	4	3	10+40
4B08BCA	OPERATING SYSTEMS	4	4	3	3	10+40
4B09BCA	COMPUTER ORGANIZATION	4	4	3	3	10+40
4B10BCA	LINUX ADMINISTRATION	4	4	3	3	10+40
4A15BCA	LAB III: DATA STRUCTURES AND DBMS	4	III SEM 3 IV SEM 2	2	3	5+20
4B11BCA	LAB IV: JAVA PROGRAMMING, SHELL PROGRAMMING & LINUX ADMINISTRATION	4	III SEM 2 IV SEM 3	2	3	5+20
5B12BCA	SOFTWARE ENGINEERING	5	3	3	3	10+40
5B13BCA	ENTERPRISE JAVA PROGRAMMING	5	4	4	3	10+40
5B14BCA	PYTHON PROGRAMMING	5	2	2	3	10+40
5B15BCA	WEB TECHNOLOGY	5	2	2	3	10+40
5B16BCA	DISCIPLINE SPECIFIC ELECTIVE I	5	4	3	3	10+40
5D--BCA	GENERIC ELECTIVE COURSE	5	2	2	2	5+20

6B17BCA	DESIGN AND ANALYSIS OF ALGORITHM	6	4	4	3	10+40
6B18BCA	INTRODUCTION TO COMPILER	6	4	3	3	10+40
6B19BCA	DATA COMMUNICATION & NETWORKS	6	3	3	3	10+40
6B20BCA	DISCIPLINE SPECIFIC ELECTIVE II	6	3	3	3	10+40
6B21BCA	LAB V: ENTERPRISE JAVA PROGRAMMING	6	V SEM 3 VI SEM 2	2	3	5+20
6B22BCA	LAB VI: PYTHON PROGRAMMING	6	V SEM 3 VI SEM 2	3	3	5+20
6B23BCA	LAB VII: WEB TECHNOLOGY	6	V SEM 2 VI SEM 2	2	3	5+20
6B24BCA	PROJECT	6	5	4	-	20+80
*AN INDUSTRIAL VISIT (STUDY TOUR) IS RECOMMENDED FOR THE PROJECT WORK						

LIST OF DISCIPLINE SPECIFIC ELECTIVE COURSES

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5B16BCA-E01	INFORMATION SECURITY	5	4	3	3
5B16BCA-E02	MOBILE COMMUNICATIONS	5	4	3	3
5B16BCA-E03	C# AND .NET PROGRAMMING	5	4	3	3
5B16BCA-E04	BIO-INFORMATICS	5	4	3	3
6B20BCA-E01	DATA MINING AND DATA WAREHOUSING	6	3	3	3
6B20BCA-E02	NETWORK PROGRAMMING	6	3	3	3
6B20BCA-E03	DIGITAL IMAGE PROCESSING	6	3	3	3
6B20BCA-E04	CLOUD COMPUTING	6	3	3	3

EVALUATION

ASSESSMENT	WEIGHTAGE
EXTERNAL	80%
INTERNAL	20%

CONTINUOUS INTERNAL ASSESSMENT FOR THEORY

COMPONENT	WEIGHTAGE	REMARKS
COMPONENT1: TEST	80%	MINIMUM OF 2 TESTS SHOULD BE CONDUCTED. MARKS FOR THE TEST COMPONENT SHOULD BE CALCULATED AS THE AVERAGE OF THE MARKS OBTAINED IN THE TESTS CONDUCTED.
COMPONENT 2: ASSIGNMENT/ SEMINAR/VIVA	20%	ANY ONE COMPONENT

PATTERN OF QUESTION PAPER FOR END SEMESTER EVALUATION

Part A	**Short Answer**	**6 Questions x 1 Mark = 6 Marks**
	Answer all questions	6 Questions x 1 Mark = 6 Marks
Part B	**Short Essay**	**8 Questions x 2 Marks = 16 Marks**
	Answer any 6 questions	6 Questions x 2 Marks = 12 Marks
Part C	**Essay**	**6 Questions x 3 Marks = 18 Marks**
	Answer any 4 questions	4 Questions x 3 Marks = 12 Marks
Part D	**Long Essay**	**4 Questions x 5 Marks = 20 Marks**
	Answer any 2 questions	2 Questions x 5 Marks = 10 Marks
Total Marks Including Choice: 60		
Maximum Marks for the Course: 40		

CONTINUOUS EVALUATION FOR PRACTICAL

COMPONENT	WEIGHTAGE	REMARKS
COMPONENT 1: LAB SKILLS, OBSERVATION NOTE AND PUNCTUALITY	20% FOR LAB SKILL 20% FOR OBSERVATION NOTE AND PUNCTUALITY	OBSERVATION NOTE IS MANDATORY. MARKS SHOULD BE GIVEN CONSIDERING OBSERVATION NOTE LAB SKILLS AND PUNCTUALITY.
COMPONENT1: TEST	60%	MODEL EXAMINATION SHOULD BE CONDUCTED BEFORE EXTERNAL EXAM AND CONSIDERED FOR INTERNAL MARK

END SEMESTER EVALUATION FOR PRACTICAL

***EXCEPT : 2B04BCA PROGRAMMING IN C- LAB**

COMPONENT	PART A	PART B
Code Writing	3	3
Output	3	3
Modification for Part A or Part B	3	
Record	2	
Viva	3	
Total Marks	**20**	

PATTERN OF QUESTION PAPER FOR END SEMESTER EVALUATION

Part A	**2 Questions x 10 Mark = 20 Marks**	
	Answer any 1 question	1 Questions x 10 Mark = 10 Marks
Part B	**2 Questions x 10 Mark = 20 Marks**	
	Answer any 1 question	1 Questions x 10 Mark = 10 Marks
Total Marks Including Choice: 40		
Maximum Marks for the Course: 20		

SEMINARS/ASSIGNMENTS/VIVA

These are part of the curriculum and are to be critically assessed for Internal Assessment. Marks should be awarded based on the content, presentation and the effort put in by the student. The course teacher may give the topics for seminars / assignments. The topics shall be related to the syllabus of the course and is not meant for evaluation in the End Semester Examination.

RECORDS

One rough record (Observation Note) and one fair record are compulsory for each practical course. The student will not be permitted to appear for practical examinations without certified practical records. The records are intended as observation records of the practical works done in the lab. The valuation of records, to be done internally, should be based on the effort and promptness of the student in practical works. Record mark is calculated at the time of End Semester Evaluation. Observation notes are compulsory in Lab hours.Students should get signature for each program done in the lab from the faculties and those programs are recommended for fair record.

PROJECT WORK

Every student of B.Sc. Computer Science Programme shall have to work on a project of FIVE credits under the supervision of a faculty member as per the curriculum. The duration of the project is one year, starting in the fifth semester and submission of the dissertation at the end of sixth semester. Individual projects are recommended but, in an instance, where the number of supervising teachers is less, the project may be done as group. The maximum number of students in a group shall be limited to THREE.

PROJECT EVALUATION

Evaluation of the Project Work shall be done under Mark System at two stages:

1. Internal Assessment (supervising teachers will assess the project and award internal Marks)
2. External evaluation (external examiner appointed by the University)

Marks secured for the project will be awarded to candidates, combining the internal and external Marks. Assessment of different components may be taken as below.

CONTINUOUS EVALUATION FOR PROJECT

COMPONENT	WEIGHTAGE
Punctuality	20%
Relevance of topic System study / Design of tables	20%
Project Report	30%
Presentation & Viva-voce	30%
Total	**100%**

END SEMESTEREVALUATION FOR PROJECT

COMPONENT	WEIGHTAGE
Written Synopsis/Abstract	12.5%
Content of the Project	12.5%
Quality of project work/Useof software/ tools	12.5%
Perfection of the work (Designs of tables/ Input & Output forms)	25%
Live demo	12.5%
Viva-voce	25%
Total	**100%**

KANNUR UNIVERSITY

(Abstract)

B.Sc. Computer Science Programme- Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad.C2/12371/2019 Civil Station P.O, Dated 21/06/2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated 10-10-2017

2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
3. U.O No.Acad.C2/429/2017 Vol.II dated 03-06-2019
4. The Minutes of the meeting of the Board of Studies in Computer Science (UG) held on 07-06-2019
5. Syllabus of B.Sc. Computer Science submitted by the Chairperson, Board of Studies in Computer Science (UG) dated 13/06/2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies, Workshops, discussions etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Computer Science (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core, Complementary Elective & Generic Elective Course of B.Sc.Computer Science Programme to be implemented with effect from 2019 Admission.

--2--

5. As per paper read (5) above, the Chairperson, Board of Studies in Computer Science (UG) has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of B.Sc Computer Science Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper(Core/Complementary Elective/Generic Elective Course) of B.Sc. Computer Science programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to report before the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Paper of B.Sc.Computer Science Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
for REGISTRAR

To

The Principals of Colleges offering B.Sc. Computer Science Programme

Copy to:-

1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Computer Science (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer (for uploading in the website)
6. SF/DF/FC

Forwarded/By Order

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES-COMPUTER SCIENCE(UG)

SYLLABUS FOR B.SC. COMPUTER SCIENCE CORE, COMPLEMENTARY ELECTIVE COURSE FOR B.SC. MATHEMATICS/STATISTICS/PHYSICS/ ELECTRONICS PROGRAMMES AND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT AND SEMESTER SYSTEM
(OBE-Outcome Based Education System)

(2019 ADMISSION ONWARDS)

Kannur University

Vision and Mission Statement

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manantavadytaluk of Wayanad Revenue District"

Mission:

- To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher education and to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY

Programme Outcomes (PO)

PO 1. Critical Thinking:

1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.
3. Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO 2. Effective Citizenship:

1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.
2. Develop and practice gender sensitive attitudes, environmental awareness, the ability to understand and resist various kinds of discriminations and empathetic social awareness about various kinds of marginalisation.
3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO 3. Effective Communication:

1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language
2. Learn to articulate analysis, synthesis, and evaluation of situations and themes in a well-informed manner.
3. Generate hypothesis and articulate assent or dissent by employing both reason and creative thinking.

PO 4.Interdisciplinarity:

1. Perceive knowledge as an organic comprehensive, interrelated and integrated faculty of the human mind
2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

Technological innovations have redefined the traditional concepts of education, profession and lifestyles in the contemporary scenario. Computer Systems are a part of every aspect of prevalent culture from home video game consoles to hospital monitoring equipment. Computer scientists design, build and improve these systems, finding new applications for sophisticated technology. India has been one of the leading exporters of IT talent and Indian computer professionals have played major role in the growth and development of IT sector in various countries.

The Board of Studies in Computer Science travails to offer students with a solid technological foundation through the reformed curriculum for undergraduate programme of Kannur University. The curriculum aims at developing technical caliber among students through academic explorations in the classroom, extended academic activities like seminars, workshops and conferences. Formative and summative assessments will absolutely be in tune with the learning outcomes and the instructional strategies.

In this era of unprecedented technological developments, the Board of Studies in Computer Science of Kannur University substantially emphasizes employment-based curriculum to empower the students with refined technical competence. This curriculum categorically states the graduate attributes / outcomes and has been developed after various workshops and academic deliberations with different stakeholders at various levels. The Board of Studies in Computer Science has resolved to introduce the syllabus for UG Programme in the affiliated colleges from 2019 admission onwards and I would like to place on record my gratefulness to the members of the Board of Studies, faculty and stakeholders for having helped me in the formulation of this syllabus.

Lt. Thomas Scaria

Chairperson

Board of Studies, Computer Science (UG)
Kannur University

KANNUR UNIVERSITY

Programme Specific Outcome of B.Sc. Computer Science Programme

PSO1	Understand the concepts of Computer Science and Applications.
PSO2	Understand the concepts of System Software and Application Software.
PSO3	Understand the concepts of Algorithms and Programming.
PSO4	Understand the concepts of Computer Networks and Operating Systems
PSO5	Design, develop, implement and test software systems to meet the given specifications, following the principles of Software Engineering.

KANNUR UNIVERSITY

BSC COMPUTER SCIENCE PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

Semester	Course Title*	Credits	Hours per week	Total Credits	Total Hours
I	Common Course – English I	4	5	18	25
	Common Course – English II	3	4		
	Common Course – Additional Language I	4	5		
	Core Course I – 1B01CSC Introduction to C Programming	2	1		
	Core Course III – 2B03CSC Lab 1: C Programming*	0	2		
	Complementary Elective I (Mathematics /Statistics)	3	4		
	Complementary Elective II (Physics)	2	2		
	Complementary Elective II (Physics- Practical)	-	2		
II	Common Course – English III	4	5	20	25
	Common Course – English IV	3	4		
	Common Course – Additional Language II	4	5		
	Core Course II – 2B02CSC Advanced C Programming	2	1		
	Core Course III – 2B03CSC Lab 1: C Programming*	2	2		
	Complementary Elective I (Mathematics /Statistics)	3	4		
	Complementary Elective II (Physics)	2	2		
	Complementary Elective II (Physics- Practical)	-	2		
III	General Awareness Course I – 3A11CSC Programming in C++	3	3	15	25
	General Awareness Course II – 3A12CSC Database Management System	3	3		
	Core Course IV – 3B04CSC Data Structures	4	4		
	Core Course VI – 4B06CSC Lab II: Data Structures Using C++**	0	3		
	Core Course VII – 4B07CSC Lab III: Database Management System**	0	2		
	Complementary Elective I (Mathematics /Statistics)	3	5		
	Complementary Elective II (Physics)	2	3		
	Complementary Elective II (Physics- Practical)	-	2		

IV	General Awareness Course III – 4A13CSC Digital Electronics	3	3	24	25
	General Awareness Course IV – 4A14CSC Operating Systems	3	3		
	Core Course V – 4B05CSC Software Engineering	4	4		
	Core Course VI – 4B06CSC Lab II: Data Structures Using C++**	3	3		
	Core Course VII – 4B07CSC Lab III: Database Management System**	2	2		
	Complementary Elective I (Mathematics /Statistics)	3	5		
	Complementary Elective II (Physics)	2	3		
	Complementary Elective II (Physics- Practical)	4	2		
V	Core Course VIII – 5B08CSC Web Technology	4	4	17	25
	Core Course IX – 5B09CSC Java Programming	4	4		
	Core Course X – 5B10CSC Computation Using Python	3	3		
	Core Course XI – 5B11CSC- Discipline Specific Elective I	4	4		
	Core Course XVI – 6B16CSC Lab IV: Java Programming***	0	4		
	Core Course XVII – 6B17CSC Lab V: Web Technology and Python Programming***	0	4		
	General Elective Course	2	2		
VI	Core Course XII – 6B12CSC Computer Networks	4	4	26	25
	Core Course XIII – 6B13CSC Compiler Design	4	4		
	Core Course XIV – 6B14CSC Computer Organization	3	3		
	Core Course XV – 6B15CSC- Discipline Specific Elective II	4	4		
	Core Course XVI – 6B16CSC Lab IV: Java Programming***	3	2		
	Core Course XVII – 6B17CSC Lab V: Web Technology and Python Programming***	3	2		
	Core Course XVIII – 6B18CSC Project	5	6		
Total				120	150

Total Marks of the Programme – 1750 Marks (Eng-200 Marks, Additional Common Course 100 Marks, Core 1050 Marks, First Complementary Elective 200 Marks and Second Complementary Elective -200 Marks)

*External examination will be conducted at the end of second semester

**External examination will be conducted at the end of fourth semester

***External examination will be conducted at the end of sixth semester

First Complementary Elective: Mathematics/Statistics

Second Complementary Elective: Physics

PART A

B.SC. COMPUTER SCIENCE CORE COURSES WORK AND CREDIT DISTRIBUTION

(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS	MARKS(INTERNAL + EXTERNAL)
1B01CSC	INTRODUCTION TO C PROGRAMMING	1	1	2	3	10+40
2B03CSC	LAB I: C PROGRAMMING	1	2	0	-	-
2B02CSC	ADVANCED C PROGRAMMING	2	1	2	3	10+40
2B03CSC	LAB I: C PROGRAMMING	2	2	2	3	5+20
3A11CSC	PROGRAMMING IN C++	3	3	3	3	10+40
3A12CSC	DATABASE MANAGEMENT SYSTEM	3	3	3	3	10+40
3B04CSC	DATA STRUCTURES	3	4	4	3	10+40
4B06CSC	LAB II: DATA STRUCTURES USING C++	3	3	0	-	-
4B07CSC	LAB III: DATABASE MANAGEMENT SYSTEM	3	2	0	-	-
4A13CSC	DIGITAL ELECTRONICS	4	3	3	3	10+40
4A14CSC	OPERATING SYSTEMS	4	3	3	3	10+40
4B05CSC	SOFTWARE ENGINEERING	4	4	4	3	10+40
4B06CSC	LAB II: DATA STRUCTURES USING C++	4	3	3	3	5+20
4B07CSC	LAB III: DATABASE MANAGEMENT SYSTEM	4	2	2	3	5+20
5B08CSC	WEB TECHNOLOGY	5	4	4	3	10+40
5B09CSC	JAVA PROGRAMMING	5	4	4	3	10+40
5B10CSC	COMPUTATION USING PYTHON	5	3	3	3	10+40
5B11CSC	DISCIPLINE SPECIFIC ELECTIVE I	5	4	4	3	10+40
5D--CSC	GENERIC ELECTIVE COURSE	5	2	2	2	5+20
6B16CSC	LAB IV: JAVA PROGRAMMING	5	4	0	-	-
6B17CSC	LAB V: WEB TECHNOLOGY& PYTHON PROGRAMMING	5	4	0	-	-
6B12CSC	DATA COMMUNICATION AND COMPUTER NETWORKING	6	4	4	3	10+40

6B13CSC	COMPILER DESIGN	6	4	4	3	10+40
6B14CSC	COMPUTER ORGANIZATION	6	3	3	3	10+40
6B15CSC	DISCIPLINE SPECIFIC ELECTIVE II	6	4	4	3	10+40
6B16CSC	LAB IV: JAVA PROGRAMMING	6	2	3	3	5+20
6B17CSC	LAB V: WEB TECHNOLOGY& PYTHON PROGRAMMING	6	2	3	3	5+20
6B18CSC	PROJECT*	6	6	5	-	20+80
*AN INDUSTRIAL VISIT (STUDY TOUR) IS RECOMMENDED FOR THE PROJECT WORK						

TOTAL MARKS OF CORE COURSES 1050

LIST OF DISCIPLINE SPECIFIC ELECTIVE COURSES

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS
5B11CSC-A	ALGORITHM DESIGNING	5	4	4	3
5B11CSC-B	LINUX ADMINISTRATION	5	4	4	3
5B11CSC-C	COMPUTER GRAPHICS	5	4	4;	3
6B15CSC-A	INFORMATION SECURITY	6	4	4	3
6B15CSC-B	DATA MINING	6	4	4	3
6B15CSC-C	BIO-INFORMATICS	6	4	4	3

EVALUATION

ASSESSMENT	WEIGHTAGE
EXTERNAL	80%
INTERNAL	20%

CONTINUOUS EVALUATION FOR THEORY

COMPONENT	WEIGHTAGE	REMARKS
COMPONENT1: TEST	80%	MINIMUM OF 2 TESTS SHOULD BE CONDUCTED. MARKS FOR THE TEST COMPONENT SHOULD BE CALCULATED AS THE AVERAGE OF THE MARKS OBTAINED IN THE TESTS CONDUCTED.

COMPONENT 2: ASSIGNMENT/ SEMINAR/VIVA	20%	ANY ONE COMPONENT

PATTERN OF QUESTION PAPER FOR END SEMESTER EVALUATION

Part A	**Short Answer**	**6 Questions x 1 Mark = 6 Marks**
	Answer all questions	6 Questions x 1 Mark = 6 Marks
Part B	**Short Essay**	**8 Questions x 2 Marks = 16 Marks**
	Answer any 6 questions	6 Questions x 2 Marks = 12 Marks
Part C	**Essay**	**6 Questions x 3 Marks = 18 Marks**
	Answer any 4 questions	4 Questions x 3 Marks = 12 Marks
Part D	**Long Essay**	**4 Questions x 5 Marks = 20 Marks**
	Answer any 2 questions	2 Questions x 5 Marks = 10 Marks
Total Marks Including Choice: 60		
Maximum Marks for the Course: 40		

CONTINUOUS EVALUATION FOR PRACTICAL

COMPONENT	WEIGHTAGE	REMARKS
COMPONENT 1: LAB SKILLS, OBSERVATION NOTE AND PUNCTUALITY	20% FOR LAB SKILL 20% FOR OBSERVATION NOTE AND PUNCTUALITY	OBSERVATION NOTE IS MANDATORY. MARKS SHOULD BE GIVEN CONSIDERING OBSERVATION NOTE LAB SKILLS AND PUNCTUALITY.
COMPONENT1: TEST	60%	MODEL EXAMINATION SHOULD BE CONDUCTED BEFORE EXTERNAL EXAM AND CONSIDERED FOR INTERNAL MARK

END SEMESTER EVALUATION FOR PRACTICAL

***EXCEPT : 2B03CSC ADVANCED C PROGRAMMING - LAB**

COMPONENT	PART A	PART B
Code Writing	3	3
Output	3	3
Modification for Part A or Part B	3	
Record	2	
Viva	3	
Total Marks	**20**	

PATTERN OF QUESTION PAPER FOR END SEMESTER EVALUATION-PRACTICAL

Part A	**2 Questions x 10 Mark = 20 Marks**	
	Answer any 1 question	1 Questions x 10 Mark = 10 Marks
Part B	**2 Questions x 10 Mark = 20 Marks**	
	Answer any 1 question	1 Questions x 10 Mark = 10 Marks
Total Marks Including Choice: 40		
Maximum Marks for the Course: 20		

SEMINARS/ASSIGNMENTS/VIVA

These are part of the curriculum and are to be critically assessed for Internal Assessment. Marks should be awarded based on the content, presentation and the effort put in by the student. The course teacher may give the topics for seminars / assignments. The topics shall be related to the syllabus of the course and is not meant for evaluation in the End Semester Examination.

RECORDS

One rough record (Observation Note) and one fair record are compulsory for each practical course. The student will not be permitted to appear for practical examinations without certified practical records. The records are intended as observation records of the practical works done in the lab. The valuation of records, to be done internally, should be based on the effort and promptness of the student in practical works. Record mark is calculated at the time of End Semester Evaluation. Observation notes are compulsory in Lab hours. Students should get signature for each program done in the lab from the faculties and those programs are recommended for fair record.

PROJECT WORK

Every student of B.Sc. Computer Science Programme shall have to work on a project of FIVE credits under the supervision of a faculty member as per the curriculum. The duration of the project is one year, starting in the fifth semester and submission of the dissertation at the end of sixth semester. Individual projects are recommended but, in an instance, where the number of supervising teachers is less, the project may be done as group. The maximum number of students in a group shall be limited to THREE.

PROJECT EVALUATION

Evaluation of the Project Work shall be done under Mark System at two stages:

1. Internal Assessment (supervising teachers will assess the project and award internal Marks)
2. External evaluation (external examiner appointed by the University)

Marks secured for the project will be awarded to candidates, combining the internal and external Marks. Assessment of different components may be taken as below.

CONTINUOUS EVALUATION FOR PROJECT

COMPONENT	WEIGHTAGE
Punctuality	20%
Relevance of topic System study / Design of tables	20%
Project Report	30%
Presentation & Viva-voce	30%
Total	**100%**

END SEMESTER EVALUATION FOR PROJECT

COMPONENT	WEIGHTAGE
Written Synopsis/Abstract	12.5%
Content of the Project	12.5%
Quality of project work/Use of software/ tools	12.5%
Perfection of the work (Designs of tables/ Input & Output forms)	25%
Live demo	12.5%
Viva-voce	25%
Total	**100%**

KANNUR UNIVERSITY
(Abstract)

BSc Computer Science Programme - Revised Scheme & Syllabus of Core, Complementary and Open Courses under Choice Based Credit Semester System for Under Graduate Programme - implemented with effect from *2014 admission - Orders Issued.*

ACADEMIC BRANCH

No. Acad/C2/7857/2014 (1) Dated, Civil Station P.O, 04 - 07-2014

Read: 1.U.O No. Acad/C2/2232/2014 dated 14-03-2014
2. Minutes of the meeting of the Board of Studies in Computer Science (UG) held on 27-01-2014
3. Minutes of the meeting of the Faculty of Technology held 01-04-2014
4. Letter dated 24.06.2014 from the Chairman, BOS in Computer Science (UG)

ORDER

1. The Revised Regulations for UG Programme under Choice based Credit & Semester System were implemented in this University with effect from 2014 admission as per paper read (1) above.

2. As per paper read (2) above the Board of Studies in Computer Science(UG) finalized the Scheme , Syllabus & model Question Papers for Core, Complementary & open courses of BSc Computer Science programme to be implemented with effect from 2014 admission.

3. As per read (3) above the Faculty of Technology held on 01-04-2014 approved Scheme, syllabus & model question papers for core/complementary & open courses of BSc Computer Science programme to be implemented with effect from 2014 admission.

4. The Chairman, Board of Studies in Computer Sience (UG) vide paper read (4) above has submitted the finalized copy of Scheme, syllabus & Model question papers for core/complementary and open courses of BSc Computer Science programme for implementation with effect from 2014 admission.

5. The Vice Chancellor, after examining the matter in detail, and in exercise of the powers of the Academic Council as per section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with, has accorded sanction to implement the revised scheme, syllabus& model question papers of BSc Computer Science Programme with effect from 2014 admission.

6. Orders, are therefore issued implementing the revised scheme, syllabus & model question papers for core, complementary& open courses of BSc Computer Science programme under CBCSS with effect from 2014 admission subject to report to Academic Council

7. Implemented revised Syllabus is appended.

Sd/-
REGISTRAR

To

1. The Principals of Affiliated Colleges offering B.Sc Computer Science Programme
2. The Examination Branch (through PA to CE)

Contd.....2

Copy To:

1. The Chairman, BOS Computer Science (UG)
2. PS to VC/PA to PVC/PA to Registrar
3. DR/AR I Academic
4. Central Library
5. SF/DF/FC.

Forwarded/By Order

Section Officer

KANNUR UNIVERSITY
KANNUR
PIN-670567
Date:.....
MANGATTUPARA

❖ *For more details log on to www.kannur university.ac.in*

KANNUR UNIVERSITY

COURSE STRUCTURE AND SYLLABUS

For

UNDERGRADUATE PROGRAMME

In

COMPUTER SCIENCE

CORE, COMPLEMENTARY
And
OPEN COURSES

Under

CHOICE BASED CREDIT AND SEMESTER SYSTEM

w. e. f. 2014 ADMISSION

General Guidelines, Curricula, Syllabus and Scheme of examinations for B.Sc (Computer Science) Programme w.e.f 2014 admission onwards.

B.Sc. Computer Science, an undergraduate programme under the Faculty of Technology of Kannur University, consists of Computer Science as core subject with two complimentary subjects. The duration of the programme is six semesters distributed over a period of three years. A semester consists of 90 working days including examination days distributed over a minimum of 18 weeks of five working days each.

COURSES

The number of courses required to complete the programme shall be 40. 'Course' means a segment of subject matter to be covered in a semester (traditionally referred to as paper). The courses include Common Courses including General Course, Complimentary Course, Core Course and Open Course. The break-up of the courses is as follows; Detailed course structure is given in table 1.

Common courses (English + Additional language)	0 6
Common courses (General)	0 4
Complimentary I	0 5
Complimentary II	0 5
Core	1 9
Open Course	0 1
Total	**4 0**

COURSE STRUCTURE

B.Sc Computer Science[Core]

Semester –I

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course- English I	5		4	50
2	Common course- English II	4		3	50
3	Common course- Additional Language I	5		4	50
4	Core course-1 Introduction to Computers &Programming Languages	1	2	3	50
5	Complementary I (Mathematics)	4		3	50
6	Complementary II	4		3	50
	Total	**23**	**2**	**20**	**300**

Semester –II

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	Common course- English III	5		4	50
2	Common course- English IV	4		3	50
3	Common course -Additional Language II	5		4	50
4	Core course- 2 Advanced Programming in C	1		2	50
5	Core course -3 Lab-1 Advanced C Programming		2	1	25
6	Complementary I- (Mathematics-II)	4		3	50
7	Complementary II-	4		3	50
	Total	**23**	**2**	**20**	**325**

Semester –III

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	General course-1 Programming with C++	3	2	4	50
2	General course-2 Digital Electronics	4		4	50
3	Core course-4 Data Structure	3	3	4	50
4	Complementary I (Mathematics-III)	5		3	50
5	Complementary II	5		3	50
	Total	**20**	**5**	**18**	**250**

Semester –IV

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	General course-3 Database Management System	3		4	50
2	General course-4 Operating System	4		4	50
3	Core course-5 C# and.NET Programming	3		4	50
4	Core course -6 lab –II (Programming with C++ & Data Structure)		2	1	25
5	Core course-7 Lab-II (.NET Programming & DBMS)		3	2	25
6	Complementary I (Mathematics-IV)	5		3	50
7	Complementary II	5		3	50
	Total	**20**	**05**	**21**	**300**

Semester –V

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	Core course-8 Software Engineering	3		4	50
2	Core course-9 Web Technology	2	3	3	50
3	Core course-10 Java Programming	3	3	4	50
4	Core course -11 Linux Administration	3	2	3	50
5	Core course -12 Elective-I	4		4	50
6	Open Course	2		2	25
	Total	**17**	**08**	**20**	**275**

Semester –VI

No.	Course Name	Hours/Week		Credit	Marks
		Theory	Practical		
1	Core course-13 System Software	4		3	50
2	Core course-14 Data Communication & Networks	4		3	50
3	Core course-15 Computer Organization	3		3	50
4	Core course -16 Elective-II	4		3	50
5	Core course -17 Lab IV – Java & Shell Programming		3	2	25
6	Core course-18 Lab IV Web Technology		2	2	25
7	Core course -19 Lab V- Project	2	3	5	100
	Total	**17**	**08**	**21**	**350**

Common course:

Means a course that comes under the category of courses, including compulsory English and additional language courses and a set of general courses. There are 10 common courses for the BSc. Computer Science programme. This includes four English courses (two courses each in first and second semesters), two additional language courses (one course each in first and second semesters) and four General courses (two each in third and fourth semesters). The syllabi of general courses include the topics related to Computer Science.

Complementary Course:

Means a course which is generally related to the core course (traditionally referred to as subsidiary paper). There are two complimentary subjects for BSc. Computer Science programme. The total number of courses offered in each subjects shall be FIVE. Complementary courses are offered during first to fourth semesters.

Core course:

Means a compulsory course in a subject related to a particular degree programme. The core subject Computer Science consists of 13 theory papers,5 practical papers and 1 project work. The semester wise list of Core and General Courses is given in Table 2.

Open course:

Means a course which can be opted by a student at his/her choice. There shall be one open course in core subjects in the fifth semester. The open course shall be open to all the students in the institution except the students in the parent department. The students can opt for that course from any other department in the institution. Each department can decide the open course from a pool of three courses offered by the university. The list of open courses in Computer Science is given in Table 3.for the purpose of open course B.Sc Computer Science and BCA should be considered as a single department.

Table 2. Scheme of Core and General Courses

No	Sem	Course Code	Course Name	Hours/Week		Credit	Total Crd/s
				Theory	Practical		
1	1	**1B01CSC**	Introduction to Computers & Programming Languages	1	2	3	**3**
2	2	**2B02CSC**	Advanced Programming in C	1		2	**3**
3	2	**2B03CSC**	Lab-I Advanced C Programming		2	1	
4	3	**3A11CSC**	Programming with C++	3	2	4	**12**
5	3	**3A12CSC**	Digital Electronics	4		4	
6	3	**3B04CSC**	Data Structure	3	3	4	
7	4	**4A13CSC**	Database Management System	3		4	**15**
8	4	**4A14CSC**	Operating System	4		4	
9	4	**4B05CSC**	C# and .NET Programming	3		4	
10	4	**4B06CSC**	Lab-II (Programming with C++ & Data Structure		2	1	
11	4	**4B07CSC**	Lab-III (.NET Programming & DBMS)		3	2	
12	5	**5B08CSC**	Software Engineering	3		4	**20**
13	5	**5B09CSC**	Web Technology	2	3	3	
14	5	**5B10CSC**	Java Programming	3	3	4	
15	5	**5B11CSC**	Linux Administration	3	2	3	
16	5	**5B12CSC**	Elective-I	4		4	
17	5	***5D---CSC***	Open Course	2		2	
18	6	**6B13CSC**	System Software	4		3	**21**
19	6	**6B14CSC**	Data Communication & Networks	4		3	
20	6	**6B15CSC**	Computer Organization	3		3	
21	6	**6B16CSC**	Elective -II	4		3	
22	6	**6B17CSC**	Lab IV- Java & Shell Programming		3	2	
23	6	**6B18CSC**	Lab V Web Technology		2	2	
24	6	**6B19CSC**	Project	2	3	5	

Elective –I							
No	Sem	Course Code	Course Name	Hours/Week		Credit	Marks
				Theory	Practical		
1	5	**5B12CSC - E01**	Algorithm Analysis and Design	4	--	4	50
2	5	**5B12CSC –E02**	Computer Graphics	4	--	4	50
3	5	**5B12CSC –E03**	Data Mining	4	--	4	50
Elective –II							
1	6	**6B16CSC – E04**	Compiler Design	4	--	3	50
2	6	**6B16CSC – E05**	Data Compression	4	--	3	50
3	6	**6B16CSC – E06**	Information Security	4	--	3	50

Table 3. Scheme of OPEN COURSES for 5th Semester

Sl. No	Sem	Course Code	Name of the Course	Hours/ Week	Credit	Marks
1	**5**	**5D01CSC**	Programming with C	2	2	***25***
2	**5**	**5D02CSC**	Web Technology	2	2	***25***
3	**5**	**5D03CSC**	Data Base Management System	2	2	***25***

Scheme of Complementary Courses

No	Sem	Course Code	Course Name	Theory	Practical	Credit	Total credit/s	Marks
1	1	**1C01CSC**	Fundamentals of Computers & Programming languages	2	2	2	2	40
2	2	**2C02CSC**	Programming in C	2	2	2	2	40
3	3	**3C03CSC**	Data Base Management System	3	2	3	3	40
4	4	**4C04CSC**	Visual Programming	3		3	5	40
5	4	**4C05CSC**	Lab-I (C Programming, DBMS &Visual Basic)		2	2		40
TOTAL						**12**		**200**

CREDITS

Each course shall have certain credits. For passing the BSc. Computer Science programme the student shall be required to achieve a minimum of 120 credits of which 38 credits (14 credits for English courses, 8 credits for Additional language courses and 16 credits for General courses) shall be from common courses. Minimum credits required for core, complementary and open courses put together are 82. The distribution of credits for various courses is given in Table 3.

CREDIT DISTRIBUTION (LRP-COMPUTER SCIENCE)

SUBJECT	SEM	COMMON		GENERAL	CORE	COMPLEMENTARY		OPEN	TOTAL
		ENGLISH	ADDITIONAL		Comp Science	Maths	Stat		
COMPUTER SCIENCE	I	4+3	4	----	3	3	3	----	**20**
	II	4+3	4	----	2+1	3	3	----	**20**
	III	----	----	4+4	4	3	3	----	**18**
	IV	----	----	4+4	4+1+2	3	3	----	**21**
	V	----	----	----	4+4+4+4+2	----	----	2	**20**
	VI	----	----	----	3+3+3+3+2+2+5	----	----	----	**21**
TOTAL		**14**	**8**	**16**	**56**	**12**	**12**	**2**	**120**

ATTENDANCE

Minimum 75% attendance is compulsory for theory as well as practical courses, failing which a student is not eligible to appear for university examinations.

SEMINARS/ASSIGNMENTS

These are part of the curriculum and are to be critically assessed for Internal Assessment. Marks should be awarded based on the content, presentation and the effort put in by the student. The course teacher may give the topics for seminars / assignments. The topics shall be related to the syllabus of the course and is not meant for evaluation in the End Semester Examination. The format of the title page of assignment /seminar report is given in Appendix I

PROJECT WORK

Every student of B.Sc. Computer Science Programme shall have to work on a project of **FIVE** credits under the supervision of a faculty member as per the curriculum. The duration of the project is one year, starting in the fifth semester and submission of the dissertation at the end of sixth semester. Individual projects are recommended but in an instance where the number of supervising teachers is less, the project may be done

as group. The maximum number of students in a group shall be limited to **THREE**. The format of the title page of Dissertation is given in Appendix II

RECORDS

A record is compulsory for each practical course. The student will not be permitted to appear for practical examinations without certified practical records. The records are intended as observation records of the practical works done in the lab. The valuation of records, to be done internally, should be based on the effort and promptness of the student in practical works.

COURSE EVALUATION

The evaluation scheme for each course shall contain two parts

a) Internal Assessment (IA)
b) External Evaluation (End Semester Evaluation ESE)

20% weight shall be given to the internal evaluation. The remaining 80% weight shall be for the external evaluation. The distribution of marks for each course is given in Table 4.

Table 4. Scheme of mark distribution of BSc. Computer Science programme

Courses		No. of courses	Marks per course			Total Marks
			Int.	Ext.	Total (Int+Ext)	
Common	English	4	10	40	50	200
	Addl. Language	2	10	40	50	100
General		4	10	40	50	200
Complementary	I (Mathematics)	4	10	40	50	200
	II (Statistics (without Practical)	4	10	40	50	200
	/Electronics/Physics)	5	8	32	40	200
Core	Theory	13	10	40	50	650
	Practical	5	05	20	25	125
	Project	-	20	80	100	100
Open course		1	5	20	25	25
Total						**1800**

Internal Assessment:

20% of the total marks in each course are for internal assessment. The marks secured for internal assessment only need be sent to university by the colleges concerned. The internal assessment shall be based on a predetermined transparent system involving written test, assignments/ seminars/ Viva and attendance in respect of theory courses and submissions and records, tests and attendance in respect of practical courses. Components with percentage of marks of Internal Evaluation of

Theory Courses are-

Attendance	- 25%
Assignment/ Seminar/Viva	- 25%
Test paper	- 50%

For practical courses-

Attendance	- 25%
Submissions and Record	- 25%
Practical Test Paper	- 50%

(If a fraction appears in total internal marks, nearest whole number is to be taken)

Attendance of each course shall be evaluated as below-

Attendance %	% Marks Allotted
Above 90%	100%
85 to 89%	80%
80 to 84 %	60%
75 to 79 %	40%
Less than 75 %	Not eligible for University exam

Theory External Evaluation:

External evaluation carries 80% of marks. All question papers shall be set by the university. The external examination in theory courses is to be conducted with question papers set by external experts. The evaluation of the answer scripts shall be done by examiners based on a well-defined Scheme of valuation and answer keys provided by the University. Details regarding the End Semester Evaluation of core complementary and open courses are given below:

1. Core Courses

- Maximum Marks for each course - **40** Marks
- Duration of examination - **3** Hrs.

Sl.No	Type of Question	Marks	Number of Questions to be answered / total number of questions	Max. Marks
01	A bunch of 8 one word answer questions	0.5	08/08	04
02	Short answer	2	07/10	14
03	Short Essay /Programs	3	04/06	12
04	Essay Type	5	02/04	10

2. Complementary Courses

- Maximum Marks for each course - **32** Marks
- Duration of examination - **3** Hrs.

Sl.No	Type of Question	Marks	Number of Questions to be answered / total number of questions	Max. Marks
01	A bunch of 6 one word answer questions	0.5	06/06	03
02	Short answer	2	05/08	10
03	Short Essay /Programs	3	03/05	09
04	Essay Type	5	02/04	10

3. Open Course

- Maximum Marks for open course - **20** Marks
- Duration of examination - **2** Hrs.

Sl.No	Type of Question	Marks	Number of Questions to be answered / total number of questions	Max. Marks
01	A bunch of 8 one word answer questions	0.5	08/08	04
02	Short answer	2	03/05	06
03	Short Essay /Programs	3	02/04	06
04	Essay Type	4	01/02	04

External Evaluation Practical

External evaluation carries 80% of marks. All question papers shall be set by the university. The external examination in practical courses shall be conducted by **TWO** external examiners appointed by the University. No practical examination will be conducted in odd semester. Practical examinations shall be conducted in the even semester (II, IV and VI). The Scheme of Examinations and Model Question Papers of all the theory and practical courses offered under core, general and open courses are include in the detailed syllabus. Practical examination assessment of different components may be taken as below.

Components	Part A	Part B
Program code	**3**	**3**
Error free Execution	**2**	**2**
Perfect Output	**2**	**2**
Modification	**1**	**1**
Viva-voce	**2**	**2**
Total	**10**	**10**

Project Evaluation

Evaluation of the Project Work shall be done under Mark System at two stages:

a) Internal Assessment (supervising teachers will assess the project and award internal Marks)
b) External evaluation (external examiner appointed by the University)

Marks secured for the project will be awarded to candidates, combining the internal and external Marks. The internal to external components is to be taken in the ratio 1:4. Assessment of different components may be taken as below.

Internal (20% of the Total)		
Components	**% of Marks**	**Marks**
Punctuality	20	04
Relevance of topic System study / Design of tables	20	04
Project Report	30	06
Presentation & Viva-voce	30	06
Total	**100**	**20**

External (80% of Total)		
Components	**% of Marks**	**Marks**
Writing synopsis/Abstract	12.5	10
Content of the Report	12.5	10
Quality of project work/ Use of software/ tools	12.5	10
Perfection of the work done (Designs of tables/ Input & Output forms)	25	20
Live demo	12.5	10
Viva-Voce	25	20
Total	**100**	**80**

External Examiners will be appointed by the University in consultation with the Chairperson of the Board. Project evaluation shall be done along with the external examination of Core Practical lab IV & V in sixth semester.

KANNUR UNIVERSITY

(Abstract)

BA Economics /Development Economics Programmes - Revised Scheme, Syllabi and Model Question Papers - Core/Complementary/Open Courses under Choice Based Credit Semester System-Implemented with effect from 2014 Admission - Orders issued.

ACADEMIC BRANCH

U.O No. Acad/C1/4271/2014 Dated, Civil Station (PO), 3 -05-2014

Read: 1. U.O.No.Acad/C2/2232/2014 dated 14/03/2014
2. Minutes of the meeting of the Board of Studies in Economics UG held on 15-01-2014
3.Minutes of the meeting of the Faculty of Humanities held on 27-03-2014
4.Letter dated 11-04-2014 from the Chairman, Board of Studies Economics UG

ORDER

1. The Revised Regulations for Choice based Credit Semester System have been implemented in this University with effect from 2014 admission vide paper read (1) above.

2. As per the paper read (2) above, Board of Studies in Economics (UG) finalized the Scheme, Syllabi and Model Question Papers for BA Economics/Development Economics under Choice Based Credit Semester System with effect from 2014 admission.

3.As per the paper read (3) above the meeting of Faculty of Humanities approved the Scheme, Syllabi and Model question papers for BA Economics/Development Economics w.e.f.2014 admission.

4.The Chairman, Board of Studies in Economics (UG) ,vide paper (4) read above has forwarded the Scheme, Syllabi and Model Question Papers for BA Economics/Development Economics for implementation with effect from 2014 admission.

5. The Vice Chancellor after considering the matter in detail and in exercise of the powers of Academic Council conferred under section 11 (1) of Kannur University Act 1996 and all other enabling provisions read together with has accorded sanction to implement the revised Scheme, Syllabi and Model Question Papers (Core/Complementary/Open Courses) for BA Economics/Development Economics under Choice Based Credit Semester System with effect from 2014 admission subject to report Academic Council.

6. Orders are, therefore, issued accordingly.

7. The Implemented Scheme, Syllabi and Model Question Papers are appended.

Sd/-
DEPUTY REGISTRAR (Academic)
For REGISTRAR

To

The Principals of Colleges offering BA Economics/Developing Economics Programme.

(PTO)

5/5/14

1. The Examination Branch (through PA to CE)
2. PS to VC/PA to /PA to Registrar /
3.Chairman BOS Economics (UG)
4. PA to CE
5. DR/AR I Academic
6. SF/DF/FC.

Forwarded/ by Order

Section Officer

For more details; log on www.kannur university.ac.in

KANNUR UNIVERSITY

COURSE STRUCTURE

SYLLABUS

And

MODEL QUESTION PAPERS

For

BA ECONOMICS/DEVELOPMENT ECONOMICS

Under

Kannur University Regulations for

Choice Based Credit and Semester System

For Under-Graduate Curriculum 2014

(KUCBCSSUG 2014)

KANNUR UNIVERSITY
BOARD OF STUDIES IN ECONOMICS (UG)
RESTRUCTURED CURRICULUM OF UNDERGRADUATE ECONOMICS PROGRAMME
2014 Admission onwards

Economics is one of the most dynamic and fast growing disciplines coming under the purview of social sciences. Its horizon begins from the boundary of social sciences but expands comprehensively to other sciences on account of its relatively fairer degree of objectivity and profoundly greater strength of applicability of quantitative techniques. Its widening perspectives and high degree of adaptability and flexibility to link itself with other sciences make it a unique field of interdisciplinary and multidisciplinary advancement of scientific knowledge. Finding knowledge gaps and filling these gaps are happening in this field at a remarkable pace and intensity. Thus, complicated socio-economic problems get transitory or enduring solutions.

Association of economics with management studies, environmental sciences, demography, health sciences, etc. has opened multiple branches of economics. Environmental economics, resource economics, managerial economics, gender economics, health economics, etc. are few such branches. Besides these interdisciplinary and multidisciplinary areas of scientific knowledge, economics has its newer branches like constitutional economics, econophysics, neuro-economics etc.

Economics uses the tools of various disciplines like management studies, mathematics, statistics, and their sophisticated software and has become an integral part of knowledge explosion. It has interdisciplinary approaches in teaching and learning, research and exploration, and formulation and application of socio political and economic policies. Combining these advancements with our great achievements in science and technology we can make our farms and firms less risky . For this we need to connect our knowledge and research centers directly or indirectly with the farms and firms. Along with the establishment of research and knowledge centers we need to enrich and update the syllabi at the undergraduate level, which is the very foundation of Higher Education. The ongoing syllabi at the undergraduate level are not a perfect and smooth continuation and expansion of the syllabi at Higher Secondary level of education. They need modifications and improvements in tune with the latest developments in economic thought, technique and analysis, and the rapidly changing socio-economic environment of our country.

The revised syllabi, a product of a series of workshops conducted under the aegis of the U G Board of Studies and enriched by the active participation of faculty members, research scholars and experts of academia, are expected to impart professionalism and provide insight into the newly emerging areas of knowledge. A good number of teachers and academicians within and outside the State have contributed their knowledge, experience and service to this academic exercise. The deliberation of the experts from various fields and existing syllabi of different universities have been immensely used for framing the new syllabi of the BA Economics Programme. It is also to be pointed out that before finalizing the syllabi, experts from other universities were consulted and their suggestions incorporated. The new and revised syllabi are expected to meet the requirements of the time and materialize the mission and vision of the Higher Education.

DR NJ SALEENA
Chairperson, Board of Studies in Economics (UG)
Kannur University

INDEX

TABLE FOR COURSE STRUCTURE FOR BA ECONOMICS/DEVELOPMENT ECONOMICS PROGRAMME

Subject	Sem	Common Course			General	Core					Complementary		Open	Total
		English (First Language)		HIN/MAL/URD (Second Language)		Economics								
English Literature& Language	1	4	3	4		5					4	-		20
	II	4	3	4		4					4	-		19
	III	4		4		5	4					4		21
	IV	4		4		4	4					4		20
	V	----		---		4	4	4	4	4			2	22
	VI					4	4	4	4	2				18
	Total	22 Credits (300 Marks)		16 Credits (200 Marks)		64 Credits (775 Marks)					8	8	2	120
											16 Credits (200 Marks)		2Credits (25 Marks)	
		38 Credits (500 Marks)				82 Credits (1000 Marks)								120

Grand Total 1500 Marks

Total Credit 120

B A ECONOMICS/ DEVELOPMENT ECONOMICS

Total number of Common courses : 10

Total Credit : 38

Total number of

a) Core courses : 15+Project work

b) Complementary Courses : 4

Total Credits

a) Core courses : 64

b) Complementary Courses : 16

Total number of Open Courses : 1

Total Credits : 2

Total Credit for B A Programme : 120

Scheme and Marks Distribution for BA Programme in Economics

Sem	Course	Course Code	Name of the Paper	Hours/ week	Credit	Marks
1	Common	1A01ENG	Common Course I English	5	4	40+10=50
	Common	1A02ENG	Common Course II English	4	3	40+10=50
	Common (Language)	1A07MAL/HIN/ ARB/URD	Common Course I Additional Language	4	4	40+10=50
	Core	1B01ECO	Micro Economic Analysis-I	6	5	40+10=50
	Complimentary	1C0	Complimentary I	6	4	40+10=50
2	Common	2A03ENG	Common Course III English	5	4	40+10=50
	Common	2A04ENG	Common Course IV English	4	3	40+10=50
	Common (Language)	2A08MAL/HIN/ ARB/URD	Common Course II Additional Language	4	4	40+10=50
	Core	2B02ECO	Micro Economic Analysis-II	6	4	40+10=50
	Complementary	2CO	Complimentary II	6	4	40+10=50
3	Common	3A05ENG	Common Course V English	5	4	40+10=50
	Common (Language)	3A09 MAL/HIN/ ARB/URD	Common Course III Additional Language	5	4	40+10=50
	Core	3B03ECO	Macro Economic Analysis-I	5	5	40+10=50
	Core	3BO4ECO	International Economics	4	4	40+10=50
	Complementary	3CO	Complimentary 1	6	4	40+10=50
4	Common	4A06ENG	Common Course VI English	5	4	40+10=50
	Common (Language)	4A10MAL/HIN/ ARB/URD	Common Course IV Additional Language	5	4	40+10=50
	Core	4B05ECO	Macro Economic Analysis-II	5	4	40+10=50
	Core	4BO6ECO	Environmental Economics	4	4	40+10=50
	Complementary	4CO	Complimentary II	6	4	40+10=50
5	Open	5D0ECO	--------	2	2	20+05=25
	Core	5B07ECO	Basic Tools for Economic Analysis-1	6	4	40+10=50
	Core	5B08ECO	Alternative Economics	4	4	40+10=50
	Core	5B09ECO	Research Methods and Techniques for Economic Analysis	4	4	40+10=50
	Core	5B10ECO	Development Economics	4	4	40+10=50
	Core	5B11ECO	Economics of Banking and Finance	5	4	40+10=50
6	Core	6B12ECO	Basic Tools for Economic Analysis-II	6	4	40+10=50
	Core	6B13ECO	Central Themes in Indian Economy	5	4	40+10=50
	Core	6B14ECO	Public Economics	6	4	40+10=50
	Core	6B15ECO	Basic Econometric analysis	5	4	40+10=50
	Project	6B16 ECO(Pr)	Project	3	2	20+05=25

CORE COURSES

- MICRO ECONOMIC ANALYSIS I
- MICRO ECONOMIC ANALYSIS II
- MACRO ECONOMIC ANALYSIS I
- INTERNATIONAL ECONOMICS
- MACRO ECONOMIC ANALYSIS II
- ENVIRONMENTAL ECONOMICS
- BASIC TOOLS FOR ECONOMIC ANALYSIS I
- ALTERNATIVE ECONOMICS
- RESEARCH METHODS AND TECHNIQUES FOR ECONOMIC ANALYSIS
- DEVELOPMENT ECONOMICS
- ECONOMICS OF DEVELOPMENT AND PLANNING 1
- ECONOMICS OF BANKING AND FINANCE
- BASIC TOOLS FOR ECONOMIC ANALYSIS II
- CENTRAL THEMES IN INDIAN ECONOMY
- ECONOMICS OF DEVELOPMENT AND PLANNING11
- PUBLIC ECONOMICS
- BASIC ECONOMETRIC ANALYSIS
- PROJECT

COMPLEMENTARY COURSES

ECONOMICS / NON ECONOMICS FACULTY

- MATHEMATICS FOR ECONOMIC ANALYSIS- I
- MATHEMATICS FOR ECONOMIC ANALYSIS- II
- MATHEMATICAL ECONOMICS-I
- MATHEMATICAL ECONOMICS-II
- INTRODUCTORY ECONOMICS- I (FOR NON ECONOMICS FACULTY ONLY)
- INTRODUCTORY ECONOMICS- II (FOR NON ECONOMICS FACULTY ONLY)
- HISTORY OF ECONOMIC THOUGHT-I
- HISTORY OF ECONOMIC THOUGHT-II
- POPULATION STUDIES
- REGIONAL ECONOMICS
- AGRICULTURAL ECONOMICS
- GENDER ECONOMICS

OPEN COURSES

Six open Courses are listed during the V Semester. Colleges have the freedom to select any one of the Open Courses.

Semester-V

- **ECONOMICS OF TRAVEL AND TOURISM**
- **KERALA ECONOMY**
- **ECONOMICS OF SHARE MARKET**

COURSE STRUCTURE FOR BA ECONOMICS/DEVELOPMENT ECONOMICS

TABLE FOR COMMON COURSES

Sl No.	Semester	Course Code	Title of the paper	Contact Hour/week	Credits	Marks
1	1	1A01ENG	Common Course I English	5	4	40+10=50
2	1	1A02ENG	Common Course II English	4	3	40+10=50
3	1	1A07MAL/HIN/ARB/URD	Common Course I Additional	4	4	40+10=50
4	11	2A03 ENG	Common Course III English	5	4	40+10=50
5	11	2A04 ENG	Common Course IV English	4	3	40+10=50
6	11	2A08MAL/HIN/ARB/URD	Common Course II Additional	4	4	40+10=50
7	111	3A05ENG	Common Course V English	5	4	40+10=50
8	111	3A09MAL/HIN/ARB/URD	Common Course III Additional	5	4	40+10=50
9	1V	4A06ENG	Common Course VI English	5	4	40+10=50
10	IV	4A10MAL/HIN/ARB/URD	Common Course IV Additional	5	4	40+10=50

TABLE FOR CORE COURSES: BA ECONOMICS PROGRAMME

SL. No	Semester	Course Code	Name of the paper	Contact Hour/ week	Credits
1	I	1B01ECO	Micro Economic Analysis-I	6	5
2	II	2B02ECO	Micro Economic Analysis-II	6	4
3	III	3B03ECO	Macro Economic Analysis-I	5	5
4	III	3B04ECO	International Economics	4	4
5	IV	4B05ECO	Macro Economic Analysis-II	5	4
6	IV	4B06ECO	Environmental Economics	4	4
7	V	5B07ECO	Basic Tools for Economic Analysis-I	6	4
8	V	5B08ECO	Alternative Economics	4	4
9	V	5B09ECO	Research Methods and Techniques for Economic Analysis	4	4
10	V	5B10ECO	Development Economics	4	4
11	V	5B11ECO	Economics of Banking and Finance	5	4
12	VI	6B12ECO	Basic Tools for Economic Analysis-II	6	4
13	VI	6B13ECO	Central Themes in Indian Economy	5	4
14	VI	6B14ECO	Public Economics	6	4
15	VI	6B15ECO	Basic Econometric Analysis	5	4
16	VI	6B16 ECO (Pr)	Project	3	2

TABLE FOR CORE COURSES: BA DEVELOPMENT ECONOMICS PROGRAMME

SL. No	Semester	Course Code	Title of the course	Contact Hour/week	Credits
1	I	1B01ECO	Micro Economic Analysis-I	6	5
2	II	2B02ECO	Micro Economic Analysis-II	6	4
3	III	3B03EC0	Macro Economic Analysis-I	5	5
4	III	3B04ECO	International Economics	4	4
5	IV	4B05ECO	Macro Economic Analysis-II	5	4
6	IV	4B06ECO	Environmental Economics	4	4
7	V	5B07ECO	Basic Tools for Economic Analysis-I	6	4
8	V	5B08ECO	Alternative Economics	4	4
9	V	5B09ECO	Research Methods and Techniques for Economic Analysis	4	4
10	V	5B10 DEV ECO	Economics of Development and Planning -I	4	4
11	V	5B11ECO	Economics of Banking and Finance	5	4
12	VI	6B12ECO	Basic Tools for Economic Analysis-II	6	4
13	VI	6B13 DEV ECO	Economics of Development and Planning -II	5	4
14	VI	6B14ECO	Public Economics	6	4
15	VI	6B15ECO	Basic Econometric Analysis	5	4
16	VI	6B16DEV ECO(Pr)	Project	3	2

TABLE FOR COMPLEMENTARY COURSES: BA ECONOMICS/ DEVELOPMENT ECONOMICS PROGRAMME

SL. No	Semester	Course Code	Title of the course	Contact Hours/week	Credits
1	I	1C01ECO	Mathematics for Economic Analysis-I	6	4
2	II	2C02ECO	Mathematics for Economic Analysis-II	6	4
3	III	3C03ECO	Mathematical Economics-I	6	4
4	IV	4C04ECO	Mathematical Economics-II	6	4
5	I	1C05ECO	Introductory Economics-I(Non Economics Programes Only)	6	4
6	II	2C06ECO	Introductory Economics-II (For Non Economic Programes Only)	6	4
7	III	3C07ECO	History of Economic Thought-I	6	4
8	IV	4C08ECO	History of Economic Thought-II	6	4
9	1	1C09ECO	Population Studies	6	4
10	II	2C10ECO	Regional Economics	6	4
11	III	3C11ECO	Agricultural Economics	6	4
12	IV	4C12ECO	Gender Economics	6	4

TABLE FOR OPEN COURSES: BA ECONOMICS/ DEVELOPMENT ECONOMICS

SEMESTER-V

Sl.No	Course Code	Title of the course	Contact Hours/week	Credits
1	5D01ECO	Economics of Travel and Tourism	2	2
2	5D02ECO	Kerala Economy	2	2
3	5D03ECO	Economics of Share Market	2	2

B A ECONOMICS PROGRAMME

CORE COURSE STRUCTURE

Sl. No	Course Code	Name of the paper	Semester in which the paper is offered	Credits for each paper	Contact hours per week	Examination Time	Marks
1	1B01ECO	Micro Economic Analysis-I	I	5	6	3 hrs	40+10=50
2	2B02ECO	Micro Economic Analysis-II	II	4	6	3 hrs	40+10=50
3	3B03ECO	Macro Economic Analysis-I	III	5	5	3 hrs	40+10=50
4	3B04ECO	International Economics	III	4	4	3 hrs	40+10=50
5	4B05ECO	Macro Economic Analysis-II	IV	4	5	3 hrs	40+10=50
6	4B06ECO	Environmental Economics	IV	4	4	3 hrs	40+10=50
7	5B07ECO	Basic Tools for Economic Analysis-I	V	4	6	3 hrs	40+10=50
8	5B08ECO	Alternative Economics	V	4	4	3 hrs	40+10=50
9	5B09ECO	Research Methods and Techniques for Economic Analysis	V	4	4	3 hrs	30+10★ + 10=50
10	5B10ECO	Development Economics	V	4	4	3 hrs	40+10=50
11	5B11ECO	Economics of Banking and Finance	V	4	5	3 hrs	40+10=50
12	6B12ECO	Basic Tools for Economic Analysis-II	VI	4	6	3 hrs	40+10=50
13	6B13ECO	Central Themes in Indian Economy	VI	4	5	3 hrs	40+10=50
14	6B14ECO	Public Economics	VI	4	6	3 hrs	40+10=50
15	6B15ECO	Basic Econometric Analysis	VI	4	5	3 hrs	40+10=50
	6B16ECO (Pr)	Project	VI	2	3	----------	20+5=25

★Computer Practical

B A DEVELOPMENT ECONOMICS PROGRAMME
CORE COURSES STRUCTURE

Sl. No	Course Code	Name of the paper	Semester in which the paper is offered	Credits for each paper	Contact hours per week	Examination Time	Marks
1	1B01ECO	Micro Economic Analysis-I	I	5	6	3 hrs	40+10=50
2	2B02ECO	Micro Economic Analysis-II	II	4	6	3 hrs	40+10=50
3	3B03EC0	Macro Economic Analysis-I	III	5	5	3 hrs	40+10=50
4	3B04ECO	International Economics	III	4	4	3 hrs	40+10=50
5	4B05ECO	Macro Economic Analysis-II	IV	4	5	3 hrs	40+10=50
6	4B06ECO	Environmental Economics	IV	4	4	3 hrs	40+10=50
7	5B07ECO	Basic Tools for Economic Analysis-I	V	4	6	3 hrs	40+10=50
8	5B08ECO	Alternative Economics	V	4	4	3 hrs	40+10=50
9	5B09ECO	Research Methods and Techniques for Economic Analysis	V	4	4	3 hrs	30+10★ + 10=50
10	5B10DEVECO	Economics of Development and Planning -I	V	4	4	3 hrs	40+10=50
11	5B11ECO	Economics of Banking and Finance	V	4	5	3 hrs	40+10=50
12	6B12ECO	Basic Tools for Economic Analysis-II	VI	4	6	3 hrs	40+10=50
13	6B13DEVECO	Economics of Development and Planning -II	VI	4	5	3 hrs	40+10=50
14	6B14ECO	Public Economics	VI	4	6	3 hrs	40+10=50
15	6B15ECO	Basic Econometric Analysis	VI	4	5	3 hrs	40+10=50
	6B16DEVECO(Pr)	Project	VI	2	3		20+05=25

★Computer Practical

B A ECONOMICS/DEVELOPMENT ECONOMICS PROGRAMME
COMPLEMENTARY COURSES

Sl. No	Course Code	Name of the paper	Semester in which the paper is offered	Credits for each paper	Contact hours per week	Examination Time	Marks
1	1C01ECO	Mathematics for Economic Analysis-I	I	4	6	3 hrs	40+10=50
2	2C02ECO	Mathematics for Economic Analysis-II	II	4	6	3 hrs	40+10=50
3	3C03ECO	Mathematical Economics-I	III	4	6	3 hrs	40+10=50
4	4C04ECO	Mathematical Economics-II	IV	4	6	3 hrs	40+10=50
5	1C05ECO	Introductory Economics-I(Non Economics Programes Only)	I	4	6	3 hrs	40+10=50
6	2C06ECO	Introductory Economics-II(For Non Economic Programes Only)	II	4	6	3 hrs	40+10=50
7	3C07ECO	History of Economic Thought-I	III	4	6	3 hrs	40+10=50
8	4C08ECO	History of Economic Thought-II	IV	4	6	3 hrs	40+10=50
9	1C09ECO	Population Studies	I	4	6	3 hrs	40+10=50
10	2C10ECO	Regional Economics	II	4	6	3 hrs	40+10=50
11	3C11ECO	Agricultural Economics	III	4	6	3 hrs	40+10=50
12	4C12ECO	Gender Economics	IV	4	6	3 hrs	40+10=50

B A ECONOMICS/DEVELOPMENT ECONOMICS
OPEN COURSES

Six open Courses are listed during the V Semester. The Colleges have the freedom to select any one of the Open Courses.

SEMESTER-V

Sl. No	Course Code	Name of the paper	Semester in which the paper is offered	Credits for each paper	Contact hours per week	Examination Time	Marks
1	5D01ECO	Economics of Travel and Tourism	V	2	2	2hrs	20+5=25
2	5D02ECO	Kerala Economy	V	2	2	2 hrs	20+5=25
3	5D03ECO	Economics of Share Market	V	2	2	2hrs	20+5=25

B.A.ECONOMICS/DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)

Semester I

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
1A01ENG	Common Course (English)	- ----------	5	4	3hrs
1A02ENG	Common Course (English)	----------	4	3	3hrs
1AO7/MAL/HIN/ARB/ URD	Common Course (Language)	----------	4	4	3hrs
1B01ECO	Core Course	Micro Economic Analysis-1	6	5	3hrs
IC	Complementary Course		6	4	3hrs

B.A.ECONOMICS/DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)

Semester II

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
2A03ENG	Common Course (English)	----------	5	4	3hrs
2A04ENG	Common Course (English)	----------	4	3	3hrs
2A08/MAL/HIN/ARB/ URD	Common Course (Language)	----------	4	4	3hrs
2B02ECO	Core Course	Micro economic Analysis-11	6	4	3hrs
2C	Complementary Course		6	4	3hrs

B.A.ECONOMICS/DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)
Semester III

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
3A05ENG	Common Course (English)	----------	5	4	3hrs
3A09/MAL/HIN/ARB/ URD	Common Course (Language)	----------	5	4	3hrs
3B03ECO	Core Course	Macroeconomic Analysis-1	5	5	3hrs
3B04ECO	Core Course	International Economics	4	4	3hrs
3C	Complementary Course	----------	6	4	3hrs

B.A.ECONOMICS/DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)
Semester IV

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
4A06ENG	Common Course (English)	----------	5	4	3hrs
4A10/MAL/HIN/ARB/ URD	Common Course (Language)	----------	5	4	3hrs
4B05ECO	Core Course	Macro economic Analysis-11	5	4	3hrs
4B06ECO	Core Course	Environmental Economics	4	4	3hrs
4C	Complementary Course	----------	6	4	3hrs

B.A.ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)
Semester V

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
5DECO	Open Course	----------	2	2	2hrs
5B07ECO	Core Course	Basic Tools for Economic Analysis-1	6	4	3hrs
5B08ECO	Core Course	Alternative Economics	4	4	3hrs
5B09ECO	Core Course	Research Methods and Techniques for Economic Analysis	4	4	2hrs+Practicals
5B10ECO	Core Course	Development Economics	4	4	3hrs
5B11ECO	Core Course	Economics of Banking and Finance	5	4	3hrs

B.A. DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SEMESTER SYSTEM
(Effective from 2014-2015)
Semester V

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
5D ECO	Open Course	----------	2	2	2hrs
5B07ECO	Core Course	Basic Tools for Economic Analysis-1	6	4	3hrs
5B08ECO	Core Course	Alternative Economics	4	4	3hrs
5B09ECO	Core Course	Research Methods and Techniques for Economic Analysis	4	4	2hrs+Practicals
5B10DEVECO	Core Course	Economics of Development and Planning-1	4	4	3hrs
5B11ECO	Core Course	Economics of Banking and Finance	5	4	3hrs

B.A.ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM
(Effective from 2014-2015)
Semester VI

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
6B12ECO	Core Course	Basic Tools for Economic Analysis-II	6	4	3hrs
6B13ECO	Core Course	Central Themes in Indian Economy	5	4	3hrs
6B14ECO	Core Course	Public Economics	6	4	3hrs
6B15ECO	Core Course	Basic Econometric Aanalysis	5	4	3hrs
6B16ECO(Pr)	Core Course	Project	3	2	

B.A.DEVELOPMENT ECONOMICS
COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM
(Effective from 2014-2015)
Semester VI

Course Code	Course Category	Course Title	Hour	Credit	Examination Time
6B12ECO	Core Course	Basic Tools for Economic Analysis-II	6	4	3hrs
6B13DEVECO	Core Course	Economics of Development and Planning-11	5	4	3hrs
6B14ECO	Core Course	Public Economics	6	4	3hrs
6B15ECO	Core Course	Basic Econometric Analysis	5	4	3hrs
6B16 DEVECO (Pr)	Core Course	Project	3	2	

KANNUR UNIVERSITY
(Abstract)

B.A. Economics/ Development Economics Programme- Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

ACADEMIC BRANCH

No.Acad.C1/12530/2019 Dated, Civil Station P.O., 20 .06. 2019

Read:- 1. U.O.No.Acad.C2/429/2017 dated,10-10-2017

2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.

3. U.O. No.Acad.C2/429/2017 Vol.II dated,03-06-2019.

4. The Minutes of the Meeting of the Board of Studies in Economics (UG) held on 07.06.2019

5. Letter and Syllabus of B.A. Economics/ Development Economics Programme , Submitted by the Chairperson, Board of Studies in, Economics (UG) dated , 15.06.2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes such as conducting the meeting of various Boards of Studies ,Workshops, discussions etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in Economics (UG) finalized the Scheme, Syllabus & Pattern of Question Paper for Core, Complementary Elective & Generic Elective Course of B.A.Economics/ Development Economics Programmes to be implemented with effect from 2019 Admission.

5. As per paper read (5) above, the Chairperson, Board of Studies in Economics (UG) submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of B.A. Economics/ Development Economics Programmes for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Paper (Core/Complementary Elective/Generic Elective Course) of B.A Economics/ Development Economics programmes under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Paper of B.A Economics/ Development Economics Programmes are uploaded in the University website. (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-

DEPUTY REGISTRAR(ACADEMIC)
For REGISTRAR

To

The Principals of Colleges offering B.AEconomics/ Development Economics Programme

Copy to:-
1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in Economics (UG)
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer(for uploading in the website)
6. SF/DF/FC

KANNUR UNIVERSITY * CIVIL STATION P.O. KANNUR Pin-670 002 * THAVAKKARA *

Forwarded/By Order

SECTION OFFICER

KANNUR UNIVERSITY

BOARD OF STUDIES, ECONOMICS (UG)

SYLLABUS FOR B A PROGRAMME IN
ECONOMICS/DEVELOPMENT ECONOMICS CORE,
COMPLEMENTARY ELECTIVE COURSE
AND GENERIC ELECTIVE COURSES

CHOICE BASED CREDIT AND SEMESTER SYSTEM

(2019 ADMISSION ONWARDS)

KANNUR UNIVERSITY

VISION AND MISSION STATEMENTS

Vision: To establish a teaching, residential and affiliating University and to provide equitable and just access to quality higher education involving the generation, dissemination and a critical application of knowledge with special focus on the development of higher education in Kasargode and Kannur Revenue Districts and the Manandavady Taluk of Wayanad Revenue District.

Mission:

- To produce and disseminate new knowledge and to find novel avenues for application of such knowledge.
- To adopt critical pedagogic practices which uphold scientific temper, the uncompromised spirit of enquiry and the right to dissent.
- To uphold democratic, multicultural, secular, environmental and gender sensitive values as the foundational principles of higher education and to cater to the modern notions of equity, social justice and merit in all educational endeavors.
- To affiliate colleges and other institutions of higher learning and to monitor academic, ethical, administrative and infrastructural standards in such institutions.
- To build stronger community networks based on the values and principles of higher education and to ensure the region's intellectual integration with national vision and international standards.
- To associate with the local self-governing bodies and other statutory as well as non-governmental organizations for continuing education and also for building public awareness on important social, cultural and other policy issues.

KANNUR UNIVERSITY
PROGRAMME OUTCOMES (PO)

PO1. Critical Thinking

1.1. Acquire the ability to apply the basic tenets of logic and science to thoughts, actions and interventions.
1.2. Develop the ability to chart out a progressive direction for actions and interventions by learning to recognize the presence of hegemonic ideology within certain dominant notions.
1.3 Develop self-critical abilities and also the ability to view positions, problems and social issues from plural perspectives.

PO2. Effective Citizenship

2.1. Learn to participate in nation building by adhering to the principles of sovereignty of the nation, socialism, secularism, democracy and the values that guide a republic.
2.2. Develop and practice gender sensitive attitudes, environmental awareness, empathetic social awareness about various kinds of marginalisation and the ability to understand and resist various kinds of discriminations.
2.3. Internalise certain highlights of the nation's and region's history. Especially of the freedom movement, the renaissance within native societies and the project of modernisation of the post-colonial society.

PO3. Effective Communication

3.1. Acquire the ability to speak, write, read and listen clearly in person and through electronic media in both English and in one Modern Indian Language
3.2. Learn to articulate, analyse, synthesise, and evaluate ideas and situations in a well-informed manner.
3.3. Generate hypotheses and articulate assent or dissent by employing both reason and creative thinking.

PO4. Inter disciplinarity

4.1. Perceive knowledge as an organic, comprehensive, interrelated and integrated faculty of the human mind.
4.2. Understand the issues of environmental contexts and sustainable development as a basic interdisciplinary concern of all disciplines.
4.3. Develop aesthetic, social, humanistic and artistic sensibilities for problem solving and evolving a comprehensive perspective.

PREFACE

Economic science has become one of the most dynamic and complex disciplines across natural, physical and social sciences. Its scientific as well as dynamic character has strengthened not only the scope of economics but positively contributed to other streams of knowledge as well. The new BA syllabi of Kannur University have greater scope for using mathematical and statistical techniques, apart from theory and policy. Further it has become more interdisciplinary or/ and multidisciplinary in terms of methods of enquiry and modes of analysis. In the revised syllabi we have incorporated new frontiers of economics such as gender economics, economic geography, economic history, heterodox economics, econometrics and mathematical economics. These interdisciplinary /multidisciplinary areas will strengthen the integrated knowledge profile of the students. Restructuring was done under the initiative of Kannur University and the active involvement of the Members of the Board of Studies in Economics (UG) through a series of deliberations and discussions. In order to make it more participatory and democratic, we have organized a two day workshop to finalize the restructured curriculum and the outcome based syllabi for the BA Economics Programme. Undergraduate economics teachers of all colleges affiliated to Kannur University have actively participated in the workshop and made significant contributions towards the Outcome Based Under Graduate Education. Apart from teachers of affiliated colleges, faculty members of national repute have been invited as resource persons to streamline the syllabi in terms of method, content, and integrity of its epistemology. The basic objective of the revised syllabi is to equip our undergraduates to face the academic and real life challenges in the fast changing world tuned by knowledge revolution, science, technology, research and development. We believe that the revised curriculum and syllabi may open new horizons of knowledge and meet the vision and mission of higher education in the country. It is our privilege to introduce the revised curriculum and syllabi before the fresh undergraduates who are getting enrolled in June 2019 onwards and other stake holders of Economics Undergraduate Education.

Dr. A. Ashokan
Chairperson
Board of Studies, Economics (UG)
Kannur University

Kannur University
Programme Specific Outcome of B.A Economics / Development Economics Programme

The revised curriculum and syllabi of BA Economics Programme of Kannur University provide a structure of core courses, complementary elective courses and generic elective courses. Diversified course structure will contribute towards all round development of the student. The undergraduate programme in economics borrows ideas and techniques from a variety of other disciplines including history, geography, mathematics, statistics, management and environmental science. An undergraduate programme with sound footing in economic theory and empirics would equip the students to a range of career options in the field of economics, finance, commerce, entrepreneurship and management. The specific outcomes of the programme are summarized below:

1. The programme with structured curricula will support the academic development of the undergraduates.
2. The programme will provide the students with the opportunity to pursue courses that emphasize quantitative, qualitative and theoretical aspects of economics.
3. The programme will provide a well resourced teaching learning environment for the students of economics, which will definitely lead to the ultimate educational goal of "learning to be".
4. The programme will promote academic writing, critical thinking and research aptitude among the students.
5. Needless to point out, the students will gain a source of livelihood by expanding their skill set and widening their knowledge horizon.

INDEX

KANNUR UNIVERSITY

B A ECONOMICS PROGRAMME

WORK AND CREDIT DISTRIBUTION STATEMENT

(BA: Common English: 22, Additional Common: 16, Core: 64,
First Complementary Elective: 8, Second Complementary Elective: 8, Generic Elective: 2)

Semester	Course Title*	Credits	Hours per week	Total Credits	Total Hours
I	Common English I	4	5	20	25
	Common English II	3	4		
	Additional Common I	4	4		
	Microeconomic Analysis I	5	6		
	Complementary I	4	6		
II	Common English III	4	5	19	25
	Common English IV	3	4		
	Additional Common II	4	4		
	Microeconomic Analysis II	4	6		
	Complementary II	4	6		
III	Common English V	4	5	21	25
	Additional Common III	4	5		
	Central Themes in Indian Economy	5	5		
	International Economics	4	4		
	Complementary III	4	6		
IV	Common English VI	4	5	20	25
	Additional Common IV	4	5		
	Research Methods and Techniques for Economic Analysis	4	5		
	Environmental Economics	4	4		
	Complementary IV	4	6		
V	Generic Elective Course	2	2	22	25
	Basic Tools for Economic Analysis I	4	6		
	Heterodox Economics	4	4		
	Macroeconomic Analysis I	4	5		
	Development Economics	4	4		
	Economics of Banking and Finance	4	4		
VI	Basic Tools for Economic Analysis II	4	6	18	25
	Macroeconomic Analysis II	4	5		
	Public Economics	4	5		
	Basic Econometric Analysis	4	6		
	Project	2	3		
Total				120	150
Total Marks for Economics Programme		1525			

PART A:

ECONOMICS CORE COURSES
WORK AND CREDIT DISTRIBUTION
(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTR	HOURS PER WEEK	CREDIT	EXAM HRS	MARKS (EXT+INT)
1 B 01ECO	MICRO-ECONOMIC ANALYSIS I	I	6	5	3	40+10=50
2 B 02 ECO	MICRO-ECONOMIC ANALYSIS II	II	6	4	3	40+10=50
3 B03 ECO	CENTRAL THEMES IN INDIAN ECONOMY	III	5	5	3	40+10=50
3 B04 ECO	INTERNATIONAL ECONOMICS	III	4	4	3	40+10=50
4 B05 ECO	RESEARCH METHODS AND TECHNIQUES FOR ECONOMIC ANALYSIS	IV	5	4	2+1*	30+10+10* =50
4B06 ECO	ENVIRONMENTAL ECONOMICS	IV	4	4	3	40+10=50
5D 01ECO	GENERIC ELECTIVE	V	2	2	2	20+5=25
5 B07 ECO	BASIC TOOLS FOR ECONOMIC ANALYSIS I	V	6	4	3	40+10=50
5 B08 ECO	HETERODOX ECONOMICS	V	4	4	3	40+10=50
5 B 09ECO	MACROECONOMIC ANALYSIS I	V	5	4	3	40+10=50
5 B10 ECO	DEVELOPEMNT ECONOMICS	V	4	4	3	40+10=50
5 B11ECO	ECONOMICS OF BANKING AND FINANCE	V	4	4	3	40+10=50
6 B12 ECO	BASIC TOOLS FOR ECONOMIC ANALYSIS II	VI	6	4	3	40+10=50
6 B13 ECO	MACROECONOMIC ANALYSIS II	VI	5	4	3	40+10=50
6 B14 ECO	PUBLIC ECONOMICS	VI	5	4	3	40+10=50
6 B15 ECO	BASIC ECONOMETRIC ANALYSIS	VI	6	4	3	40+10=50
6 B16 ECO	PROJECT**	VI	3	2	PROJECT EVALUATION	**25+25=50
	TOTAL			66		825

*Computer practical

** 25 marks each for Internal and External evaluation

PART A:

DEVELOPMENT ECONOMICS CORE COURSES
WORK AND CREDIT DISTRIBUTION
(2019 ADMISSION ONWARDS)

COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS	MARKS
1 B 01 DEV ECO	MICRO-ECONOMIC ANALYSIS I	I	6	5	3	40+10=50
2 B 02 DEV ECO	MICRO-ECONOMIC ANALYSIS II	II	6	4	3	40+10=50
3 B03 DEV ECO	THEORIES OF ECONOMIC DEVELOPEMNT	III	5	5	3	40+10=50
3 B04 DEVECO	INTERNATIONAL ECONOMICS	III	4	4	3	40+10=50
4 B05 DEVECO	RESEARCH METHODS AND TECHNIQUES FOR ECONOMICS ANALYSIS	IV	5	4	2+1*	30+10+10*=50
4B06 DEVECO	ENVIRONMENTAL ECONOMICS	IV	4	4	3	40+10=50
5D 01 DEV ECO	GENERIC ELECTIVE	V	2	2	2	20+5=25
5 B07 DEV ECO	BASIC TOOLS FOR ECONOMIC ANALYSIS I	V	6	4	3	40+10=50
5 B08 DEV ECO	HETERODOX ECONOMICS	V	4	4	3	40+10=50
5 B 09 DEVECO	MACROECONOMIC ANALYSIS I	V	5	4	3	40+10=50
5 B10 DEV ECO	DEVELOPMENT PLANNING: TOOLS AND TECHNIQUES	V	4	4	3	40+10=50
5 B11 DEV ECO	ECONOMICS OF BANKING AND FINANCE	V	4	4	3	40+10=50
6 B12 DEV ECO	BASIC TOOLS FOR ECONOMIC ANALYSIS II	VI	6	4	3	40+10=50
6 B13 DEV ECO	MACROECONOMIC ANALYSIS II	VI	5	4	3	40+10=50
6 B14 DEV ECO	PUBLIC ECONOMICS	VI	5	4	3	40+10=50
6 B15 DEV ECO	BASIC ECONOMETRIC ANALYSIS	VI	6	4	3	40+10=50
6 B16 DEV ECO (PROJECT)	PROJECT**	VI	3	2	PROJECT EVALU-ATION	**25+25=50
	TOTAL			66		825

*Computer practical

** 25 marks each for Internal and External evaluation

EVALUATION

ASSESSMENT	WEIGHTAGE
EXTERNAL	4
INTERNAL	1

CONTINUOUS INTERNAL ASSESSMENT

COMPONENT*	WEIGHTAGE**	REMARKS
COMPONENT1 EXAM	50%	
COMPONENT 2 ASSIGNMENT/ SEMINAR	50%	

*Any two components, Attendance shall not be a component

PART A:
ECONOMICS/DEVELOPMENT ECONOMICS:
COMPLEMENTARY ELECTIVE COURSES
WORK AND CREDIT DISTRIBUTION
(2019 ADMISSION ONWARDS)

SL NO.	COURSE CODE	COURSE TITLE	SEMESTER	HOURS PER WEEK	CREDIT	EXAM HRS	MARKS
1	1 C 01ECO/ DEV ECO	MATHEMATICS FOR ECONOMIC ANALYSIS I	I	6	4	3	40+10=50
2	2 C 02 ECO/ DEV ECO	MATHEMATICS FOR ECONOMIC ANALYSIS II	II	6	4	3	40+10=50
3	3 C03 ECO/ DEV ECO	MATHEMATICAL ECONOMCIS I	III	6	4	3	40+10=50
4	4 C04 ECO/ DEV ECO	MATHEMATICAL ECONOMCIS II	IV	6	4	3	40+10=50
5	1 C05 ECO	INTRODUCTORY ECONOMICS I (FOR NON-ECONOMICS PROGRAMMES ONLY)	I	6	4	3	40+10=50
6	2 C06 ECO	INTRODUCTORY ECONOMICS II (FOR NON-ECONOMICS PROGRAMMES ONLY)	II	6	4	3	40+10=50
7	3 C07 ECO	HISTORY OF ECONOMIC THOUGHT I	III	6	4	3	40+10=50
8	4 C08 ECO	HISTORYOF ECONOMIC THOUGHT II	IV	6	4	3	40+10=50
9	1 C 09ECO	POPULATION AND DEVELOPEMNT	I	6	4	3	40+10=50
10	2 C10 ECO	ECONOMIC GEOGRAPHY	II	6	4	3	40+10=50
11	3 C11ECO	AGRICULTURAL ECONOMICS	III	6	4	3	40+10=50
12	4 C12 ECO	GENDER ECONOMICS	IV	6	4	3	40+10=50

ECONOMICS/DEVELOPMENT ECONOMICS:
LIST OF GENERIC ELECTIVE COURSES (ANY ONE OUT OF FIVE)
WORK AND CREDIT DISTRIBUTION

COURSE CODE	COURSE TITLE	SEMESTER	HOURS/ WEEK	CREDIT	EXAM HOURS	MARKS (EXT+INT)
5 D 01 ECO/ DEV ECO	BASICS OF ECONOMICS	**V**	2	2	2	20+5=25
5 D 02 ECO/ DEV ECO	DEVELOPMENT ISSUES OF INDIAN ECONOMY	**V**	2	2	2	20+5=25
5 D 03 ECO/ DEV ECO	KERELA ECONOMY	**V**	2	2	2	20+5=25
5 D 04 ECO/ DEV ECO	FUNDAMENTALS OF BUDGET	**V**	2	2	2	20+5=25
5 D 05 ECO/ DEV ECO	INDIAN ECONOMY IN THE POST-REFORM PERIOD	**V**	2	2	2	20+5=25

KANNUR UNIVERSITY

(Abstract)

M A Programme in English Language & Literature Programme under Credit Based Semester System in affiliated colleges – Revised Scheme, Syllabus and Pattern of Question Papers -Implemented with effect from 2016 admission- Orders issued.

ACADEMIC C SECTION

UO.No.Acad/C3/ 13141/2014 Civil Station P.O, Dated,15 -07-2016.

Read : 1. U.O.No.Acad/C1/ 11460/2013, dated, 12-03-2014, 05.12.2015 & 22.02.2016.
2. U.C of even No dated 20.10.2014
3. Meeting of the Board of Studies in English(PG) held on 06-05-2016.
4. Meeting of the Board of Studies in English(PG) held on 17-06-2016.
5. Letter dated 27.06.2016 from the Chairman, Board of Studies in English(PG)

ORDER

1. The Regulations for P.G Programmes under Credit Based Semester System were implemented in the University with effect from 2014 admission vide paper read (1) above dated 12.03.2014 & Certain modifications were effected to the same dated 05.12.2015 & 22.02.2016 respectively.

2. As per paper read (2) above, the Scheme , Syllabus & Pattern of question papers for M A Programme in English Language and Literature under Credit Based Semester System in affiliated Colleges were implemented in the University w.e.f. 2014 admission.

3. The meeting of the Board of Studies in English(PG) held on 06-05-2016 , as per paper read (3) above, decided to revise the syllabus for M A Programme in English Language and Literature w.e.f. 2016 admission & as per paper read (4) above the Board of Studies finalized and recommended the scheme, syllabus and Pattern of question papers for M A Programme in English Language and Literature for implementation with effect from 2016 admission.

4. As per the paper read (5) above, the Chairman, Board of Studies in English (PG) has forwarded the finalized copy of the Scheme , Syllabus & Pattern of question Papers for M A Programme in English Language and Literature for implementation with effect from 2016 admission.

5.The Vice-Chancellor, after considering the matter in detail, and in exercise of the powers of the Academic Council, as per Section 11 (1) of Kannur University Act, 1996 and all other enabling provisions read together with, has accorded sanction to implement the revised Scheme , Syllabus & Pattern of question Papers for M A Programme in English Language and Literature as recommended by the Board of Studies, under Credit Based Semester System in affiliated colleges with effect from 2016 admission.

P.T.O.

6.Orders are therefore issued, implementing the revised Scheme , Syllabus & Pattern of Question Papers for M A Programme in English Language and Literature under Credit Based Semester System in affiliated Colleges with effect from 2016 admission, subject to report to the Academic Council.

7.The implemented Scheme, Syllabus & Pattern of Question Papers are appended here with.

Sd/-

JOINT REGISTRAR (ACADEMIC)

For Registrar

To:

The Principals of Affiliated Colleges Offering MA English Language and Literature Programme.

Copy to:

1.The Examination Branch
2. The Chairman, Board of Studies in English (PG)
3. PS to VC/PA to PVC/PA to Registrar/PA to CE.
4. JR/AR-I (Academic).
5.The Computer Programmer (with a request to upload the Website)
6. SF/DF/FC

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SECTION OFFICER

- For more details log on to www kannur university.ac.in

APPENDIX TO U.O.NO.ACAD/C3/13141/2014 DATED 15.07.2016

KANNUR UNIVERSITY

M. A. PROGRAMME IN ENGLISH LANGUAGE AND LITERATURE

CREDIT BASED SEMESTER SYSTEM IN AFFILIATED COLLEGES

REVISED SCHEME & SYLLABUS

2016 ADMISSION ONWARDS

M. A. PROGRAMME IN ENGLISH LANGUAGE AND LITERATURE (CCSS)

REVISED SYLLABUS – 2016 ADMISSION ONWARDS

(To be followed in the affiliated colleges under Kannur University)

SEMESTER 1—Four Core Courses and one Elective (select one among three)

Semester	Course Code	Title	Internal	External	Total	Credit	Hours
I	ENG 1C01	British Literature: Chaucer to Seventeenth Century	20	80	100	4	5
	ENG 1C02	British Literature: Eighteenth Century	20	80	100	4	5
	ENG 1C03	Literary Criticism	20	80	100	4	5
	ENG 1C04	History and Structure of English Language	20	80	100	4	5
	ENG 1E01 ENG 1E02 ENG 1E03	**Elective** (Choose one among three) Malayalam Literature in Translation Media Studies English Language Teaching	20	80	100	4	5
	TOTAL		**100**	**400**	**500**	**20**	**25**

SEMESTER 2—Three Core Courses and one Elective (select one among three)

Semester	Course Code	Title	Internal	External	Total	Credit	Hours
II	ENG 2C05	Literature of the Romantic Period	20	80	100	4	7
	ENG 2C06	Literature of the Victorian Period	20	80	100	4	7
	ENG 2C07	Modern Literary Theory	20	80	100	4	6
	ENG 2E04 ENG 2E05 ENG 2E06	**Elective** (Choose one among three) Translation Studies World Drama Dalit Writings	20	80	100	4	5
	TOTAL		**80**	**320**	**400**	**16**	**25**

SEMESTER 3—Four Core Courses and one Elective (select one among three)

Semester	Course Code	Title	Internal	External	Total	Credit	Hours
III	ENG 3C 08	Twentieth Century British Literature	20	80	100	4	6
	ENG 3C09	Linguistics	20	80	100	4	4
	ENG 3C10	Indian Writing in English	20	80	100	4	5
	ENG 3C11	American Literature	20	80	100	4	6
	ENG 3E07 ENG 3E08 ENG 3E09	**Elective** (Choose one among three) Introduction to Cultural Studies European Fiction Introduction to Comparative Literature	20	80	100	4	4
	TOTAL		**100**	**400**	**500**	**20**	**25**

SEMESTER 4—Six Core Courses including Project Work and Viva-voce

Semester	Course Code	Title	Internal	External	Total	Credit	Hours
IV	ENG 4C 12	Postcolonial Writings	20	80	100	4	6
	ENG 4C 13	Women's Writing	20	80	100	4	6
	ENG 4C 14	Film Studies	20	80	100	4	6
	ENG 4C 15	Comprehension	20	80	100	4	4
	ENG PR 16	Project	20	80	100	4	3
	ENG 4C 17	Viva-Voce	00	100	100	4	0
	TOTAL		**100**	**500**	**600**	**24**	**25**

Details of Marks, Credit and Hours

Internal Assessment	380 (Maximum 20 marks for a course. Test Paper: 5 Marks; Assignment: 5 Marks; Seminar/Viva: 5 Marks Attendance: 5 Marks) Comprehension Course Internal (20 marks oral test)
External Evaluation	1620
Total Marks	2000
Total Credits	80
Total Hours	25 per week

****

KANNUR UNIVERSITY

(Abstract)

(MCJ) Master of Communication and Journalism Programme - under Credit Based Semester System in Affiliated Colleges - Revised Scheme, Syllabus &Model Question Papers- Implemented with effect from 2016 Admission - Orders issued.

ACADEMIC C SECTION

U.O No. Acad/C1/10822/2014 Civil Station (PO), Dated, 11-07-2016

Read: 1. U.O.No.Acad C1/11460/2013 dtd 12-03-2014
2. U.O.of even No dtd 29-08-2014
3. U.O.No.Acad C1/11460/2013 dated 05-12-2015 & 22-02-2016
4. Minutes of the meeting of the Board of Studies in Journalism & Mass Communication(Cd) held on 25-02-2016
5. U.O. of even No dtd 31-03-2016
6. Letter dated 27- 06- 2016 from the Chairman, Board of Studies in Journalism & Mass Communication(Cd)

ORDER

1. The Regulations for Credit Based Semester System for P.G. Programmes in affiliated Colleges were implemented in the University with effect from 2014 admission vide paper read (1) above and certain modifications were effected to the same vide paper read (3) above.

2. As per the paper read (2) above, the Scheme,Syllabus & Model Question papers for Master of Communication and Journalism (MCJ) Programme were implemented in the University under Credit Based Semester System .w.e.f. 2014 admission.

3. As certain anomalies were reported in the existing MCJ Syllabus implemented w.e.f 2014 admission and since the question paper setting of 2014 admission 3rd Sem and 2015 admission Ist Semester was over, the BOS vide paper read (4) above, decided to follow the existing Syllabus for 2014 & 2015 admission and the above decision of the board was implemented vide paper read (5) above. The Board of Studies also decided to revise the Syllabus w.e.f 2016 admission in the light of decision of the meeting and approved the restructured Syllabus by correcting the anomalies to be implemented w.e.f.2016 admission.

4. The Chairman Board of Studies in Journalism & Mass Communication (Cd) vide paper read (6) above has forwarded the revised Scheme, Syllabus and Model Question paper for Master of Communication and Journalism (MCJ) Programme for implementation with effect from 2016 admission.

5. The Vice Chancellor after considering the matter in detail, and in exercise of the powers of the Academic Council conferred under section 11 (1) of Kannur University Act 1996 and all other enabling provisions read together with has accorded sanction to implement the revised Scheme ,Syllabus and Model Question papers as recommended by the Board of Studies in Journalism and Mass Communication (Cd) under Credit Based Semester System in affiliated Colleges with effect from 2016 admission, subject to report to the Academic Council.

6.Orders are, therefore, issued accordingly.

7. The revised Scheme, Syllabus and Model Question Papers w.e.f 2016 admission are appended.

Sd/-
JOINT REGISTRAR (ACADEMIC)
For REGISTRAR

\ To
The Principals of Colleges offering MCJ Programmes

Copy to:
1. The Examination Branch (through PA to CE).
2. The Chairman BOS in Mass Communication & Journalism (Cd).
3. SF/DF/FC.

KANNUR UNIVERSITY CIVIL STATION P.O. KANNUR Pin-670 002 THAVAKKARA

Forwarded /By Order

SECTION OFFICER

For more details; log on www.kannur university .ac.in

.

KANNUR UNIVERSITY

REVISED SCHEME AND SYLLABUS FOR

PG PROGRAMME IN

Master of Communication and Journalism (MCJ)

UNDER CREDIT BASED SEMESTER SYSTEM

KU CBSS-PG-2014

FOR

AFFILIATED COLLEGES UNDER KANNUR UNIVERSITY

From 2016 ADMISSION onwards

Prepared and offered by: *Board of Studies of Journalism and Mass Communication, Kannur University*

MCJ Programme SYLLABUS for Affiliated Colleges in Kannur University w.e.f 2016

Master of Communication and Journalism

The syllabi of MCJ programme offered in the affiliated colleges of the university under semester system have been revised in the light of the decision of the meeting of the Board of studies, Journalism and Mass Communication held on 25/02/2016. The revised syllabi shall apply to MCJ programmes conducted by the affiliated colleges of Kannur university with effect from the academic year 2016-17 (2016 admission onwards) and regulations of PG Programme of Kannur University (KUCBSS –PG-2014) - U.O. No: Acad/C1/11460/2013 Dated 12/03/2014 and the revised order No.Acad/C1/11460/2013 Dated 05/12/2015 and 22.02.2016 shall be applicable to the MCJ Programme implemented w.e.f. 2016 admission.

I. Programme structure:

I Semester -from June to October

No	Core / Elective	Course Code	Title of the Course	Hours allotted per week	Credits	Marks		
						CA	ESE	Total
1	Core	MCJ 1C 01	Introduction to Mass Communication	06	04	15	60	75
2	Core	MCJ 1C 02	Reporting for Newspapers	06	04	15	60	75
3	Core	MCJ 1C 03	Editing for Newspapers	06	04	15	60	75
4	Core	MCJ 1C 04	Television Production	07	04	15	60	75
Total				25	16	60	240	300

II Semester -from November to March

No	Core / Elective	Course Code	Title of the Course	Hours allotted per week	Credits	Marks		
						CA	ESE	Total
1	Core	MCJ 2C 05	Media Laws and Ethics	04	04	15	60	75
2	Core	MCJ 2C 06	Magazine Journalism	04	04	15	60	75
3	Core	M CJ 2C 07	Communication Theories	04	04	15	60	75
4	Core	MCJ 2C 08	Radio Production	04	04	15	60	75
5	Elective**	MCJ 2E 01	Photo Journalism	04	04	15	60	75
6	Elective**	MCJ 2E 02	Travel Journalism					
7	Elective**	MCJ 2E 03	Health Communication					
8	Practical – I	MCJ 2 P 01	Newspaper production , Video production, Magazine production and Radio production	05	02	10 (2.5+2.5+2.5+2.5)	40 (10+10+10+10)	50
Total				25	22	85	340	425

**** Select one elective from this group**

III Semester -from June to October

No	Core / Elective	Course Code	Title of the Course	Hours allotted per week	Credits	Marks		
						CA	ESE	Total
1	Core	MCJ 3C 09	Public Relations and Corporate Communication	05	04	15	60	75
2	Core	MCJ 3C 10	Advertising	05	04	15	60	75
3	Core	MCJ 3C 11	Mass communication Research	05	04	15	60	75
4	Core	MCJ 3C 12	Television Journalism	05	04	15	60	75
5	Elective**	MCJ 3E 04	Indian Politics and Communication	05	04	15	60	75
6	Elective**	MCJ 3E 05	Agricultural Journalism					
7	Elective**	MCJ 3E 06	Business Journalism					
8	Elective**	MCJ 3E 07	Development Communication					
Total				25	20	75	300	375

**** Select one elective from this group**

IV Semester- from November to March

No	Core / Elective	Course Code	Title of the Course	Hours allotted per week	Credits	Marks		
						CA	ESE	Total
1	Core	MCJ 4C 13	Introduction to Cinema	05	04	15	60	75
2	Core	MCJ 4C 14	New Media and Online Journalism	05	04	15	60	75
3	Elective**	MCJ 4E 08	Technical Writing	05	04	15	60	75
4	Elective**	MCJ 4E 09	Fashion Communication					
5	Elective**	MCJ 4E 10	Sports Journalism					
6	Practical – **II**	MCJ 4P 02	PSA production, TV News bulletin production and Short film production	05	02	10 (2.5+2.5+5)	40 (10+10+20)	50
7	Project	MCJ 4Pr	Dissertation	05 -	03	10	40	50
			Internship*		02	25	-	25
8	Viva Voce	MCJ 4 C 15	Viva Voce	--	03		50	50
Total				25	22	90	310	400

**** Select one elective from this group**

***Marks for internship should be allotted by the HOD**

a. Total marks for semester – I -300
b. Total marks for semester – II- 425
c. Total marks for semester – III- 375
d. Total marks for semester – IV- 400
e. Total marks for semester I to IV- 1500

II. Practicals

Practical –I

MCJ 2 P 01 Newspaper production, Video production, Magazine production and Radio production.

1. Lab Newspapers: 5 Marks

Each student shall submit five single-page printed A3-size lab-newspapers either in Malayalam or in English, prepared as part of reporting assignments within the semester, to be evaluated by external examiners.

2. Newspaper Front Page: 5 Marks

Each student shall edit and design the front page of an A3-size newspaper either in Malayalam or in English, with the stories given by the external examiners.

3. Video production: 10 Marks

Students, divided into teams of four members each, shall produce a video of their choice without dialogue limited to five minutes, during the semester and submit it for external valuation.

4. Magazine production: 10 Marks

Students shall be divided into teams of five members each, to bring out a printed multi-color 32-page-magazine either in Malayalam or in English, reported, subbed and designed by them during the semester. It shall be submitted for external valuation.

5. Radio production: 10 Marks

Each student shall produce a seven minutes radio feature / documentary on a topic and submit it for external valuation.

Practical –II

MCJ 4P 02 PSA production, TV News bulletin production and Short film production

1. PSA production: 10 Marks

Each student shall produce a Public Service Advertisement (PSA) in print/ audio/ visual format and submit it for external valuation.

2. TV News bulletin production: 10 Marks

Students either in groups of 4-5 or individually shall report, edit and present a news bulletin either in Malayalam or in English and submit it for external valuation. The duration of a solo news bulletin shall be seven minutes while for group productions it will be 25 minutes.

3. Short film production: 20 Marks

Students divided into teams of four or five members each shall produce either a documentary or a short film of 15-minutes, in Malayalam or English, within the semester and submit it for external valuation.

III. Dissertation:

In the fourth semester each student shall submit a dissertation on any topic of his/her interest. The dissertation aims at introducing the students with research methodology and to prepare them for doing further research .Students are required to do a dissertation on a topic relating to an area of study chosen in consultation with the faculty. Each student shall be guided in his/her project by a member of the faculty.

IV. VIVA:

A Viva Voce examination will be conducted at the end of IV semester covering the whole programme including the project.

KANNUR UNIVERSITY

M.Com. Programme under Credit Based Semester System in affiliated Colleges- Revised Scheme, Syllabus &Model Question Papers- Implemented with effect from 2014 admission- Orders issued.

ACADEMIC BRANCH

U.O.No.Acad/C1/6898 /2014 Dated, Civil Station. P.O. 8- 7 - 2014

Read : 1. U.O.No.Acad C1/11460/2013 dated 12-03-2014.
2.Minutes of the meeting of the Board of Studies in Commerce (PG) held on 10-12-2013
3.Minutes of the meeting of the Faculty of Commerce and Management Studies held on 28-03-2014
4.Letter dated 3-06-2014 from the Chairman, Board of Studies in Commerce (PG)

ORDER

1. As per the paper read (1) above, the Revised Regulations for P.G. Programmes under Credit Based Semester System (CBSS) have been implemented in this University w.e.f 2014 admission.

2. The Board of Studies in Commerce PG vide paper read (2) above, finalized the Scheme Syllabus and Model Question Papers for M.Com Programme under Credit Based Semester System with effect from 2014 admission.

3. As per the paper read (3) above the meeting of Faculty of Commerce and Management Studies approved the Scheme, Syllabus and Model question papers for M.Com Programme w.e.f.2014 admission.

4. The Chairman , Board of Studies in Commerce (PG) as per letter cited (4) has forwarded the Scheme, Syllabus and Model Question Papers for M.Com Programme for implementation with effect from 2014 admission.

5. The Vice Chancellor after considering the matter in detail and in exercise of the powers of Academic Council conferred under section 11 (1) of Kannur University Act 1996 and all other enabling provisions read together with has accorded sanction to implement Scheme, Syllabus and Model Question Papers for M.Com Programmes under Credit Based Semester System(CBSS) with effect from 2014 admission subject to report Academic Council.

6. Orders are, therefore, issued accordingly.

7. The Implemented Scheme, Syllabus and Model Question Papers are appended.

Sd /-
DEPUTY REGISTRAR(Academic)
FOR REGISTRAR

To

The Principals of Colleges offering M.Com Programme

8/7/14

(PTO)

Copy To:

1. The Examination Branch (through PA to CE)
2. PS to VC
3. PA to Registrar
4. PA to CE
5. PA to FO
6. DR (Acad)
7. AR I (Acad)
8. Chairman, BOS in ~~History~~ Commerce (PG)
9. SF/DF/FC

KANNUR UNIVERSITY
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Seal
MANGATTUPARAMBA

Approved for Issue

Section Officer

*For more details;log on www.kannur university.ac.in

KANNUR UNIVERSITY

U.O.No.Acad/C1/6898/2014 Dated, 8-07-2014

SYLLABUS FOR THE POST GRADUATE DEGREE PROGRAMME IN COMMERCE (M.Com) UNDER CREDIT BASED SEMESTER SYSTEM (CBSS-PG) FOR AFFILIATED COLLEGES IMPLEMENTED WITH EFFECT FROM 2014-15 ACADEMIC YEAR

Submitted to
THE KANNUR UNIVERSITY

PG BOARD OF STUDIES COMMERCE

COURSES FOR M.COM

Semester	Course Code	Title	Marks			
			Internal	External	Total	Credit
I	COM1C01	Business Environment & Policy	15	60	75	4
	COM1C02	Quantitative Techniques & Operation Research	15	60	75	4
	COM1C03	Management Information System	15	60	75	4
	COM1C04	Organizational Behaviour	15	60	75	4
	COM1C05	Accounting for Business Decisions	15	60	75	4
	Total		75	300	375	20
II	COM2C06	Strategic Management	15	60	75	4
	COM2C07	Research Methodology & Computer Application	15	60	75	4
	COM2C08	Costing for Management Decisions	15	60	75	4
	COM2C09	Advanced Business Accounting	15	60	75	4
	COM2C10	Financial Management	15	60	75	4
	Total		75	300	375	20
III	COM3C11	Marketing Management	15	60	75	4
	COM3C12	Corporate Accounting	15	60	75	4
	COM3C13	Income Tax Law & Practice	15	60	75	4
	COM3C14	Wealth Tax & Indirect Taxes	15	60	75	4
	COM3C15	Human Resource Management	15	60	75	4
	Total		75	300	375	20
Elective A. Finance	COM4E01	Security Analysis & Portfolio Management	15	60	75	4
IV	COM4E02	International Financial Management	15	60	75	4
	COM4E03	Financial Markets & Services	15	60	75	4
	COM4E04	Corporate Tax Planning & Management	15	60	75	4
	COM4Pr	Project Report/Dissertation			25	2
	COM4C16	Viva-Voce			50	2
	Total		60	240	375	20
Grand Total					**1500**	**80**

(Continued in Page-2)

Elective B. Marketing	COM4E05	Consumer Behavior	15	60	75	4
IV	COM4E06	Advertising & Sales Management	15	60	75	4
	COM4E07	Services Marketing	15	60	75	4
	COM4E08	Logistics Management	15	60	75	4

Elective C. International Business	COM4E09	International Business Environment	15	60	75	4
IV	COM4E10	Foreign Trade Management	15	60	75	4
	COM4E11	International Banking	15	60	75	4
	COM4E12	International Marketing	15	60	75	4

KANNUR UNIVERSITY

(Abstract)

M.Sc Computer Science Programme – Scheme, Syllabus and Model Question Papers – Core / Elective Courses under – Credit Based Semester System – Affiliated Colleges - Implemented with effect from 2014 admission - Orders issued.

ACADEMIC BRANCH

U.O.No.Acad/C4/12581/2014 Dated: Civil Station P.O, 20-10-2014

Read:- 1. U.O.No.Acad.C1/11460/2013 dated 12-03-2014.

2.Minutes of the meeting of the Board of Studies in Computer Science PG held on 16/07/2014.

3.Minutes of the meeting of the Faculty of Technology held on 01/04/2014.

4.Letter dated 29/09/2014 from Dr. Raju Chairman, Board of Studies in Computer Science (PG)

ORDER

1.Revised Regulations for Credit Based Semester System for PG Programmes in affiliated Colleges have been implemented in this University with effect from 2014 admission vide paper read (1) above.

2.The Board of Studeis in Computer Science (PG) vide paper read (2) above, has finalized the Scheme, Syllabus and Model Question papers for M.Sc Computer Science under Credit Based Semester System with effect from 2014 admission.

3. As per paper read (3) above, the meeting of Faculty of Technology, approved the Scheme, Syllabus and Model Question papers for M.Sc Computer Science with effect from 2014 admission.

4.The Chairman, Board of Studies in Computer Science (PG) vide paper (4) above, has forwarded the Scheme, Syllabus and Model Question papers for M.Sc Computer Science for implementation with effect from 2014 admission.

5.The Vice Chancellor, after considering the matter in detail, and in exercise of the power of the Academic Council, conferred under Section 11 (1) of Kannur University Act, 1996 and all other enabling provisions read together with, has accorded sanction to implement the Scheme, Syllabus and Model Question Papers (Core/Elective Courses) for M.Sc Computer Science Programme in affiliated Colleges Under Credit Based Semester System with effect from 2014 admission subject to report Academic Council.

6. Orders are, therefore issued accordingly.

7. The implemented Scheme, Syllabus and Model Question Papers are appended.

Sd/-
DEPUTY REGISTRAR (Acad)
For REGISTRAR

To

The Colleges offering M.Sc Computer Science Programme.

Copy to:

1.The Examination Branch Through (PA to CE)
2.The Chairman, Board of Studies in Computer Science (PG)
3.PS to VC/PA to R/PA to CE
4.DR/AR-1 Academic

KANNUR UNIVERSITY PIN-670567 THALAP

Forwarded/ by Order

SECTION OFFICER

KANNUR UNIVERSITY

M Sc COMPUTER SCIENCE

(Credit Based Semester System)

Regulations, Curricula, Syllabus and Scheme of Evaluation

(With Effect from 2014 admission)

REGULATIONS

1. Duration of the M. Sc. (Computer Science) programme shall be 2 years, divided into 4 semesters. Each semester shall have 90 working days.The maximum period of completion is eight semesters (4 years).

2.Eligibilityfor admission: As announced by the University from time to time.

3. Programme Structure

3.1 **Attendance***:* The minimum attendance required for each course shall be 75% of the total number of classes conducted for that semester. Those who secure the minimum attendance in a semester alone will be allowed to register for the End Semester Examination. Condonation of shortage of attendance may be granted as per Kannur University PG regulation.

3.2 ***Credits:*** The total minimum credits, required to complete M. Sc. Computer Science programme is 80 in which minimum credits required for core (including practical and project) courses is 60 and for Elective courses is 12.

3.3 **Theory and Practical courses**

The evaluation scheme for each Theory and Practical courses except MCS3C16 Research Methodology shall contain two parts; (a) Continuous Assessment (CA) and (b) End Semester Evaluation (ESE). 20% marks shall be given to CA and the remaining 80 % to ESE. For MCS3C16 Research methodology the evaluation is 100% internal and shall follow the distribution applicable to theory CA.

CONTINUOUS ASSESSMENT (CA)

Theory : The components oftheory evaluation are as follows:

	COMPONENTS	% OF MARKS
i	**Test papers**	**40%**
ii	**Assignment**	**20%**
iii	**Case Study / Seminar / Viva**	**20%**
iv	**Attendance**	**20%**

i. *Test Papers*: There shall be a minimum of two test papers to be conducted for each course. If more than two test papers are conducted, then two best scores shall be taken for the award of IA marks. The dates of test papers shall be announced well in advance and the marks should be displayed in the notice board.

ii. *Assignments:* One or more assignments (including practical assignments) shall be given for each course. The mode of assessment of the assignments shall be decided by the faculty concerned with due approval from the department council and shall be declared at the beginning of the semester. (It is suggested that to the extent possible, give individual assignments and also conduct short viva based on the assignment submitted).

iii. *Case study / Seminar / viva*: The faculty with due approval from the department council shall choose one or more from this category, depending on the nature of subject and the mode of assessment is to be declared at the commencement of the semester. For seminar, topics outside but related to thesyllabus shall be chosen.

iv. *Attendance* :

Attendance	**% of Marks for attendance**
>=90	100
85 to 89	80
80 to 84	60
76 to 79	40
75	20

Practical : The Components of CA for practical courses except Case study I and II are as follows:

	COMPONENTS	**% OF MARKS**
i	Lab Test (Minimum one)	20%
ii	Completion of the list of Lab assignments prescribed by the faculty	20%
iii	Periodical assessment of Lab assignments through execution of programs and viva	40%
iv	Attendance (Mark distribution is same as that of theory)	20%

For Case study I and II :

	COMPONENTS	**% OF MARKS**
i	Periodical viva / short quizzes / short programming assignments to evaluate the basic knowledge/understanding of the tool.	30%
ii	Coding – Logic, Selection of appropriate constructs / features of the Tool, Style etc.	30%
iii	Execution of the case study - output	20%
iv	Viva based on case study	20%

Note :*All the records in respect of Continuous Assessment (CA) must be kept in the department and must be made available for verification by university. The results of the CA shall be displayed on the notice board within 5 working days from the last day of a semester. It should be get signed by the candidates. The marks awarded for various components of the CA shall not be rounded*

off, if it has a decimal part. The total marks of the CA shall be rounded off to the nearest whole number.

END SEMESTER EVALUATION (ESE):

There shall be double valuation system of answer books. The average of two valuations shall be taken in to account. If there is a variation of more than 10% of the maximum marks, the answer books shall be valued by a third examiner. The final marks to be awarded shall be the average of the nearest two out of three awarded by the examiners. After that there shall be no provision for revaluation

Pattern of questions: Questions shall be set to assess knowledge acquired, standard application of knowledge, application of knowledge in new situations, critical evaluation of knowledge and the ability to synthesize knowledge. Question paper for end semester theory examination shall consist of:

i. Short answer type : 12 questions of which 10 to be answered. 10 x 3 = 30 marks,
ii. Essay type: 5 questions (one either –or question from each module) x 10 marks = 50 marks

End Semester Evaluation in Practical courses shall be conducted and evaluated by two examiners- one internal and one external. Details of scheme of evaluation of ESE practical courses are given along with respective syllabus.

3.4 Project: A project work has to be undertaken by all students. The project can be software development following all or some of the software development lifecycle or an R&D project. The hours allotted for project work may be clustered into a single slot so that students can do their work at a centre or location for a continuous period of time. The Major project work should be carried out in the Department /Institution or in alevel Industry / R & D organization of national repute. Project work shall be carried out under the supervision of a Teacher. If the project is carried out in an Industry / R & D organization outside the campus, then a co-guide shall be selected from the concerned organization. If the project work is of interdisciplinary in nature, a co-guide shall be taken from the other department concerned. Every student should do the Project individually and no grouping is allowed. All the candidates are required to get the approval of their synopsis and the guide before commencement of the project from the Department. A co-guide should be a postgraduate in CS or allied subject or a person of eminence in the area in which student has chosen the project. At the end of the semester the candidate shall submit the Project report (two bound copies and one soft copy) duly approved by the guide and co-guide for End Semester Evaluation. The project report shall be prepared according to the guidelines approved by the University.

Evaluation of Project:

i. A Departmental committee duly constituted by the Head of the Department will review the project periodically.

ii. **Continuous Assessment of project work**: There shall be three internal presentations before the committee (Minimum two members, including the guide). The assessment is based on presentation, interim report and viva voce. The total mark for CA shall be divided among the three presentations in the ratio 20%:30%:50%.Each internal presentation shall be evaluated based on the following components:

Component	% of marks
Understanding of the problem / concepts	25
Adhering to methodology.	20
Quality of presentation and demonstration (Demonstration is optional)	15
Quantum of work / effort	30
Organization and content of mid-term report	10

iii. **End Semester Assessment of Project**: A board of two examiners appointed by the University shall conduct ESE evaluation. The evaluation shall be based on the report, presentation of the work, demonstration of the work (optional) and a detailed viva voce based on the work carried out. A candidate will not be permitted to attend the Project evaluation without duly certified project reports. Also a project will be evaluated only if the candidate attend the ESE presentation and Viva voce on the scheduled date and time. A board shall evaluate a maximum of 10 candidates in a day. The ESE evaluation shall consist of the following components:

Component	% of marks
Understanding of the problem/requirements/ concepts related to the project	15
Adhering to methodology (Software engineering phases or research methodology) and the candidates understanding of the components of methodology	15
Quality of Modeling of the problem and solution/ database design / form design / reports / testing (For research projects - relevance /novelty of the work(s)/ use of data/ proposal of new models /analysis of algorithms/ comparison and analysis of results /findings)	20
Quality of presentation / demonstration	15
Quantum of work / effort - assessed through the content of report, presentation and viva.	25
Organization and content of report	10

iv. A student shall be declared to pass in the Project report course if she/he secures minimum 40 % marks of the aggregate and 40% separately for external.

v. If a candidate fail in the evaluation of Project, he/she has to repeat the project course along with the next batch and undergo both CA and ESE. *Unlike theory/practical courses, the CA mark will not retained*.

vi. There shall be no improvement chance for the marks obtained in the Project course.

3.5 Seminar: Each student shall select a relevant topic, prepare a seminar report and give a presentation (30 to 45 minutes),under the guidance of a faculty member. The evaluation of seminar

is 100% internal and components and mode of evaluation shall be formulated by the department council (May include components like content, Presentation, interaction and structure of report).

3.6 VIVA VOCE: A general Viva Voce covering all courses in the Programme shall be conducted in the fourth semester. The Viva voce shall be conducted by two external examiners. The Viva voce *shall not be clubbed* with the project evaluation. The details of the mode of conduct and evaluation of Viva Voce shall be decided by the BOE.

4. GRADING SYSTEM

Seven Point Indirect Relative grading system:

Evaluation(both internal and external) is carried out using Mark system .The grading on the basis of a total internal and external marks will be indicated for each course and for each semester and for the entire programme.

The guidelines of grading is as follows-

% of Marks (CA+ESE)	Grade	Interpretation	Range of grade points	Class
90 and above	O	Outstanding	9-10	First class with Distinction
80 to below 90	A	Excellent	8-8.9	
70 to below 80	B	Very good	7-7.9	First class
60 to below 70	C	Good	6-6.9	
50 To below 60	D	Satisfactory	5-5.9	Second class
40 to below 50	E	Pass/Adequate	4-4.9	Pass
Below 40	F	Failure	0-3.9	Fail

$$S.G.P.A = \frac{\text{SUM OF CREDIT POINTS OF ALL COURSES IN THE SEMESTER}}{\text{TOTAL CREDITS IN THAT SEMESTER}}$$

CREDIT POINT = GRADE POINT (G) X CREDIT (C)

$$\text{C.G.P.A} = \frac{\text{Sum of credit points of all completed semesters}}{\text{Total credits acquired}}$$

$$\text{OGPA} = \frac{\text{Sum of } \textit{credit points} \text{ obtained in four } \textit{semesters}}{\textit{Total credits } (80)}$$

PASS REQUIREMENT:

COURSE:

A CANDIDATE SECURING E GRADE WITH 40% OF AGGREGATE MARKS AND 40% SEPARATELY FOR ESE FOR EACH COURSE SHALL BE DECLARED TO HAVE PASSED IN THAT COURSE.

SEMESTER

Those who secure not less than 40 % marks (both ESE and CA put together) for all the courses of a semester shall be declared to have successfully completed the semester.

The marks obtained by the candidates for CA in the first appearance shall be retained (irrespective of pass or fail)

The candidates who fail in theory unit shall reappear for theory unit only, and the marks secured by them in practical unit, if passed in practical, will be retained.

A candidate who fails to secure a minimum for a pass in a course will be permitted to write the same examination along with the next batch.

For the successful completion of a semester, a candidate should pass all courses and secure a minimum SGPA of 4. However a student is permitted to move to the next semester irrespective of his/her SGPA. A student will be permitted to secure a minimum SGPA of 4.00 required for the successful completion of a Semester or to improve his results at ESE of any semester, by reappearing for the ESE of any course of the semester concerned, along with the examinations conducted for the subsequent admission

IMPROVEMENT:

A candidate who secures minimum marks (40 %) for a pass in a course will be permitted to write the same examination along with the next batch if he/she

desires to improve his/her performance in ESE. If the candidate fails to appear for the improvement examination after registration, or if there is no change/up gradation in the marks after availing the improvement chance, the marks obtained in the first appearance shall be retained. There shall be no improvement chance for the marks obtained in internal assessment. Improvement of a particular semester can be done only once. The student shall avail the improvement chance in the succeeding year along with the subsequent batch.

There will be no supplementary examinations. For re-appearance/ improvement student can appear along with the next batch.

KANNUR UNIVERSITY
M Sc COMPUTER SCIENCE
Course Structure and Scheme of Evaluation (From 2014 Admission)
(CBSS- For affiliated Colleges)

CREDIT DISTRIBUTION

Semester	Core	Elective	Practical	Project	Total
1	**17**	**0**	**3**	**0**	**20**
2	**16**	**0**	**5**	**0**	**21**
3	**13**	**3**	**5**	**0**	**21**
4	**2**	**9**	**0**	**7**	**18**
Total	**48**	**12**	**13**	**7**	**80**

COURSE STRUCTURE

SEMESTER 1

Course Code	Course title	*Instructional Hrs/week*			MARKS			Credit
		L	P	T	CA	ESA	TOTAL	
MCS1C01	Discrete Mathematics	3	0	1	20	80	100	3
MCS1C02	Computer Organization and Architecture	3	0	1	20	80	100	3
MCS1C03	Digital Systems and Microprocessors	4	0	0	20	80	100	4
MCS1C04	Operating Systems	3	0	1	20	80	100	3
MCS1C05	Introduction to Programming	4	0	0	20	80	100	4
MCS1P01	Lab – I (IP/OS)	0	8	2	20	80	100	3
Total		17	8	5	**120**	**480**	**600**	**20**

SEMESTER 2

Course Code	Course title	*Instructional Hrs/week*			MARKS			Credit
		L	P	T	CA	ESA	TOTAL	
MCS2C06	Java Programming	3	0	0	20	80	100	3
MCS2C07	Data Structures& Algorithms	3	0	0	20	80	100	3
MCS2C08	Database Management Systems	3	0	0	20	80	100	3
MCS2C09	Computer Networks	3	0	0	20	80	100	3
MCS2C10	Formal Languages and Finite Automata	3	0	0	20	80	100	3
MCS2P02	Lab – II (Java/DS/DBMS)	0	7	1	20	80	100	3
MCS2P03	Case Study I	0	3	2	10	40	50	2
MCS2C11	Seminar	0	0	2	50	0	50	1
Total		15	10	5	**180**	**520**	**700**	**21**

SEMESTER 3

Course Code		Course title	*Instructional Hrs/week*			MARKS			Credit
			L	P	T	CA	ESA	TOTAL	
MCS3C12		Computer Graphics	3	0	0	20	80	100	3
MCS3C13		System Programming & Compiler Design	3	0	0	20	80	100	3
MCS3C14		System Administration and Network Programming	3	0	0	20	80	100	3
MCS3C15		Software Engineering	3	0	0	20	80	100	3
MCS3C16		Research methodology	1	0	1	50	0	50	1
ELECTIVE I	MCS3E01	Digital Signal Processing	3	0	0	20	80	100	3
	MCS3E02	Probability and Statistics							
	MCS3E03	Fuzzy Systems							
	MCS3E04	Design and Analysis of Algorithms							
	MCS3E05	Information Security							
MCS3P04		Lab – III (CG /NP&A/SP&CD)	0	6	2	20	80	100	3
MCS3P05		Case study II	0	3	2	10	40	50	2
Total			16	9	5	**180**	**520**	**700**	**21**

SEMESTER 4

Course Code		Course title	*Instructional Hrs/week*			MARKS			Credit
			L	P	T	CA	ESA	TOTAL	
ELECTIVE 2	MCS4E06	Digital Image Processing	3	0	0	20	80	100	3
	MCS4E07	Digital Speech Processing							
	MCS4E08	Operations Research							
	MCS4E09	Linux Kernel							
	MCS4E10	Simulation and Modeling							
ELECTIVE 3	MCS4E11	Mobile Computing	3	0	0	20	80	100	3
	MCS4E12	Pattern Recognition							
	MCS4E13	Artificial Neural Networks							
	MCS4E14	High Performance Computing							
	MCS4E15	Visual Cryptography							
ELECTIVE 4	MCS4E16	Linux Device Drivers	3	0	0	20	80	100	3
	MCS4E17	Data Mining							
	MCS4E18	Natural Language Processing							
	MCS4E19	Cyber Forensic							
	MCS4E20	Artificial Intelligence							
MCS3Pr04		Project	0	16	5	20	80	100	7
MCS4C17		General Viva Voce	-	-	-	-	100	100	2
Total			9	16	5	**80**	**420**	**500**	**18**

S.E.S. COLLEGE 670631 SREEKANDAPURAM

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