



GURUDEV ARTS & SCIENCE COLLEGE

(Affiliated to KANNUR UNIVERSITY)

Managed by the Catholic Diocese of Bathery

DVV CLARIFICATIONS

Extended Profile

1.1. Number of Courses offered by the institution across all programs during the last five years

- 1. List showing the number of courses offered during the last five years.**
- 2. The complete list of courses offered across all programmes during the last five years.**

Submitted to National Assessment and Accreditation Council (NAAC)

NUMBER OF COURSES OFFERED BY THE INSTITUTION
ACROSS ALL PROGRAMMES DURING THE LAST FIVE
YEARS

2020-21	2019-20	2018-19	2017-18	2016-17
442	421	424	414	375

**LIST SHOWING THE NUMBER OF COURSES OFFERED
DURING LAST FIVE YEARS**



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NUMBER OF COURSES OFFERED (2016-2017)

	PROGRAM	CORE COURSES	COMPLEMENTARY COURSES	OPEN COURSE	TOTAL
1	B.Sc. Physics	21	8	1	30
2	B.Sc. Chemistry	19	8	1	28
3	B.Sc. Microbiology	24	12	1	37
4	B.Sc. Biochemistry	22	12	1	35
5	B.Sc. Mathematics	15	8	1	24
6	B.A. English	16	4	1	21
7	B.C. A	29	4	1	34
8	B.Com. Co-operation	24	5**	1	25
9	B.Com. C. A	7*			12
10	B.B.A.	23		1	24
11	B.B.A.T.T.M	0			0
12	B.S.W	21	4	1	26
13	M.Sc. Chemistry	28	-		28
14	M.Sc. Mathematics	10	-		10
15	M.A.English	9	-		9
16	M.Com.Finance	10	-		10
	Common Course in Malayalam				8
	Common Course in Hindi				8
	Common Course in English				6
	TOTAL COURSES				375

*All core courses of B.Com.C.A are same of B.Com Co-operation except

**These four programs have the same 5 complementary courses



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NUMBER OF COURSES OFFERED (2017-2018)

	PROGRAM	CORE COURSES	COMPLEMENTARY COURSES	OPEN COURSE	TOTAL
1	B.Sc. Physics	21	8	1	30
2	B.Sc. Chemistry	19	8	1	28
3	B.Sc. Microbiology	24	12	1	37
4	B.Sc. Biochemistry	22	12	1	35
5	B.Sc. Mathematics	15	8	1	24
6	B.A. English	16	4	1	21
7	B.C. A	29	4	1	34
8	B.Com. Co-operation	24	5**	1	25
9	B.Com. C. A	7*			12
10	B.B.A.	25		1	26
11	B.B.A.T.T.M	5			7
12	B.S.W	21	4	1	26
13	M.Sc. Chemistry	28	-		28
14	M.Sc. Mathematics	20	-		20
15	M.A.English	19	-		19
16	M.Com.Finance	20	-		20
	Common Course in Malayalam				8
	Common Course in Hindi				8
	Common Course in English				6
	TOTAL COURSES				414

*All core courses of B.Com.C.A are same of B.Com Co-operation except 7

**These four programs have the same 7 complementary courses



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NUMBER OF COURSES OFFERED (2018-2019)

	PROGRAM	CORE COURSES	COMPLEMENTARY COURSES	OPEN COURSE	TOTAL
1	B.Sc. Physics	21	8	1	30
2	B.Sc. Chemistry	19	8	1	28
3	B.Sc. Microbiology	24	12	1	37
4	B.Sc. Biochemistry	24	12	1	37
5	B.Sc. Mathematics	15	8	1	24
6	B.A. English	16	4	1	21
7	B.C. A	29	4	1	34
8	B.Com. Co-operation	24	5**	1	25
9	B.Com. C. A	7*			12
10	B.B.A.	25		1	26
11	B.B.A.T.T.M	13			15
12	B.S.W	21	4	1	26
13	M.Sc. Chemistry	28	-		28
14	M.Sc. Mathematics	20	-		20
15	M.A.English	19	-		19
16	M.Com.Finance	20	-		20
	Common Course in Malayalam				8
	Common Course in Hindi				8
	Common Course in English				6
	TOTAL COURSES				424

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NUMBER OF COURSES OFFERED (2019-2020)

	PROGRAM	CORE COURSES	COMPLEMENTARY COURSES	OPEN COURSE	TOTAL
1	B.Sc. Physics	21	8	1	30
2	B.Sc. Chemistry	19	8	1	28
3	B.Sc. Microbiology	24	12	1	37
4	B.Sc. Biochemistry	22	12	1	35
5	B.Sc. Mathematics	14	8	1	23
6	B.A. English	16	4	1	21
7	B.C. A	29	4	1	34
8	B.Com. Co-operation	22	5**	1	23
9	B.Com. C. A	7*			12
10	B.B.A.	25		1	26
11	B.B.A.T.T.M	15			17
12	B.S.W	21	4	1	26
13	M.Sc. Chemistry	28	-		28
14	M.Sc. Mathematics	20	-		20
15	M.A.English	19	-		19
16	M.Com.Finance	20	-		20
	Common Course in Malayalam				8
	Common Course in Hindi				8
	Common Course in English				6
	TOTAL COURSES				421

*All core courses of B.Com. C. A are same of B. Com Co-operation except 7

**These four programs have the same 7 complementary courses



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NUMBER OF COURSES OFFERED (2019-2020)

	PROGRAM	CORE COURSES	COMPLEMENTARY COURSES	OPEN COURSE	TOTAL
1	B.Sc. Physics	21	8	1	30
2	B.Sc. Chemistry	19	8	1	28
3	B.Sc. Microbiology	24	12	1	37
4	B.Sc. Biochemistry	22	12	1	35
5	B.Sc. Mathematics	14	8	1	23
6	B.A. English	16	4	1	21
7	B.C. A	29	4	1	34
8	B.Com. Co-operation	22	5**	1	23
9	B.Com. C. A	7*			12
10	B.B.A.	25		1	26
11	B.B.A.T.T.M	15			17
12	B.S.W	21	4	1	26
13	M.Sc. Chemistry	28	-		28
14	M.Sc. Mathematics	20	-		20
15	M.A.English	19	-		19
16	M.Com.Finance	20	-		20
	Common Course in Malayalam				8
	Common Course in Hindi				8
	Common Course in English				6
	TOTAL COURSES				421

*All core courses of B.Com. C. A are same of B. Com Co-operation except 7

**These four programs have the same 7 complementary courses



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COMPLETE LIST OF COURSES OFFERED



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COURSES OFFERED IN THE YEAR-2016-17

I. ADDITIONAL COMMON COURSE IN MALAYALAM

(8 Courses)

SEMESTER 1	1. Sahitya Ganangal 1A07MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Sahitya Roopangal 1A07-MAL (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Sahityavum Vivarthanavum (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Gadhya Roopangal 2A08MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Gadhya Mathrukakal 2A08-1MAL (For the students of B.Com. Co-operation, B.Com.C.A, B.B.A) 6. Sahitya Vibhagangal 2A08-2MAL (For the students of B.Sc. Microbiology, 1. BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Malayala kavitha 3A09MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)



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SEMESTER 4	8. Rachana, Vivarthanam 4A10 MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

II. ADDITIONAL COMMON COURSE IN HINDI (8 Courses)

SEMESTER 1	1. Kavita aur Kahani 1A07HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Srujanatnak Sahitya 1A07-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Adhunik Sahitya 1A07-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Vyakaran ththa Rachana 2A08HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Sampreshaneey Hindi 2A08-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 6. Vyavaharik Hindi 2A08-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Gadhy ke Vividh Roop 3A09HIN



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	(For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
SEMESTER 4	8. Natak aur Upanyas 4A10HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

III. COMMON COURSE IN ENGLISH (6 Courses)

SEMESTER 1	1. Communicative English I 1A01ENG 2. Language through Literature II 1A02ENG (For all Programs)
SEMESTER 2	3. Communicative English I 2A03ENG 4. Language through Literature II 2A04ENG (For all Programs)
SEMESTER 3	5. Readings in Prose and Poetry 3A05ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)
SEMESTER 4	6. Readings in Fiction and Drama 4A06ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)



3


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IV. CORE COURSES (278)

B.Sc. Physics

SEMESTER 1	1. 1B01PHY Physics primers
SEMESTER 2	2. 2B02PHY Electronics I
SEMESTER 3	3. 3B03 PHY Allied Physics 4. 4B05PHY Practical I
SEMESTER 4	5. 4B04PHY Optics 6. 4B05PHY Practical I
SEMESTER 5	7. 5B06PHY Electrodynamics-I 8. 5B07PHY Thermal Physics 9. 5B08PHY Classical Mechanics & Relativity 10. 5B09PHY Python Programming 11. 5B10PHY Atomic, Nuclear and Particle Physics 12. 6B16 PHY Practical II 13. 6B17PHY Practical III
SEMESTER 6	14. 6B11PHY Electrodynamics II 15. 6B12PHY Photonics and Spectroscopy 16. 6B13PHY Quantum Mechanics 17. 6B14PHY Electronics II 18. 6B15PHY E-Material Science [ELECTIVE] 19. 6B16PHY Practical 20. 6B17PHY Practical III 21. 6B18PHY Project



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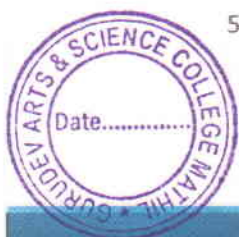
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B.Sc. Chemistry

SEMESTER 1	1. 1B01CHE Theoretical and inorganic chemistry
SEMESTER 2	2. 2B03CHE Analytical chemistry 3. 1B02CHE & 2B02CHE Volumetric analysis
SEMESTER 3	4. 3B04CHE Organic chemistry 1
SEMESTER 4	5. 4B06CHE Organic chemistry II 6. 3B05 CHE & 4B05CHE Practical 2 Inorganic qualitative analysis
SEMESTER 5	7. 5B07CHE Inorganic chemistry I 8. 5B08CHE Inorganic chemistry I 9. 5B09CHE Physical chemistry I 10. 5B10CHE Physical chemistry II 11. 5B07CHE Inorganic chemistry I
SEMESTER 6	12. 6B14CHE Organic chemistry III 13. 6B15CHE Physical chemistry III 14. 6B16CHE Physical methods in chemistry 15. 6B17 Environmental Chemistry (Elective) 16. 6B11CHE Gravimetric Analysis 17. 6B12CHE Organic chemistry 18. 6B18 CHE Physical Chemistry 19. 6B13CHE Project

B.Sc. Microbiology

SEMESTER 1	1. 1B 01 MCB General Microbiology
SEMESTER 2	2. 2 B02 MCB Microbial Taxonomy



5

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SEMESTER 3	3. 1B 03 MCB Microbial Physiology 4. 1B 04 MCB Microbiology Practical I 5. 3A 11 MCB Biochemistry for Microbiology 6. 3A 12 MCB Biophysics and Bioinformatics
SEMESTER 4	7. 4A 13 MCB Molecular Biology 8. 4A 14 MCB Microbial Genetics and Genetic Engineering 9. 4B 05 MCB Immunology 10. 4B 06 MCB Microbiology Practical II
SEMESTER 5	11. 5 B07 MCB Microbial Biotechnology 12. 5 B08 MCB Bacterial Diseases 13. 5 B09 MCB Environmental Microbiology 14. 5B10 MCB Disaster Management 15. 5 B11 MCB Ecology and Biodiversity 16. 5 B12 MCB Virology Mycology and Parasitology 17. 5 B13 MCB Microbiology Practical – III 18. 5 B14 MCB Microbiology Practical – IV
SEMESTER 6	19. 6 B15 MCB Food Microbiology 20. 6 B16 MCB Sanitation Microbiology 21. 6 B17 MCB Agricultural Microbiology and Plant Pathology 22. 6 B18 MCB Microbiology Practical – V 23. 6 B19 MCB Microbiology Practical – VI 24. 6 B20 MCB Project work

B.Sc. Biochemistry

SEMESTER 1	1. 1B018CH Bio-organic Chemistry-I
SEMESTER 2	2. 1B028CH Physical Aspects in Biochemistry
SEMESTER 3	3. 1B038CH Biomolecules



6

G. S. S.

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	4. 3B04BCH & 3B05BCH Practical 1, Part 1 & Practical 2, Part 1 5. 3A11BCH Cellular Biochemistry 6. 3A12BCH Molecular Biology
SEMESTER 4	7. 4A13BCH Biophysical & biochemical techniques 8. 4A14BCH Enzymology 9. 4B06BCH Physiological aspects of biochemistry 10. 4B04BCH & 4B05BCH Practical 1, Part II & Practical 2, Part II
SEMESTER 5	11. 5B07BCH Bioenergetics and general metabolism 12. 5B08BCH Computational techniques in biochemistry 13. 5B09BCH Immunology & Immunological Techniques 14. 5B10BCH Genetics I 15. 5B11BCH Practical 3, Part I Practical 4
SEMESTER 6	16. 6B13BCH Clinical biochemistry 17. 6B14BCH Genetics-II 18. 6B15BCH-A A Pharmaceutical chemistry 19. 6B15BCH-B Biochemistry of Health and Nutrition 20. 15BCH-C Fermentation and Food Technology 21. 6B11BCH & 6B12BCH Practical 3, Part II & Practical 4, Part II 22. 6B16BCH Project/Industrial Visit




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B.Sc. Mathematics

SEMESTER 1	1. 1B01MAT Differential Calculations
SEMESTER 2	2. 1B02MAT Integral Calculus
SEMESTER 3	3. 1B03MAT Elements of Mathematics 1
SEMESTER 4	4. 4A04MAT Elements of Mathematics 1
SEMESTER 5	5. 5B05MAT - Real Analysis 6. 5B06MAT Abstract Algebra 7. 5B07MAT Differential Equations, Laplace Transforms and Fourier Series 8. 5B08MAT Vector Calculus 9. 5B09MAT Graph Theory
SEMESTER 6	10. 6B10 Linear Algebra 11. 6B11MAT Numerical Methods, and Partial Differential Equations 12. 6B12MAT Complex Analysis 13. 6B13MAT Mathematical Analysis and Topology 14. 6B14BMAT Operation Research 15. 6B15MAT Project

B.A. English

SEMESTER 1	1. 1B01 ENG History of English Language and Literature
SEMESTER 2	2. 2B02ENG Studies in Prose



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SEMESTER 3	3. 3B03 ENG Linguistics 4. 3B4ENG English in the Internet Era
SEMESTER 4	5. 4B05NG Studies in poetry 6. 4B06ENG Literary Criticism
SEMESTER 5	7. 5B07ENG Modern Critical Theory 8. 5B08ENG Drama, Theory and Literature 9. 5B09NG Studies in Fiction 10. 5B10ENG Women's Writing
SEMESTER 6	11. 6B11ENG Project 12. 6B12ENG Malayalam literature in translation 13. 6B13ENG New Literatures in English 14. 6B14ENG Indian Writing in English 15. 6B15ENG Film Studies 16. 6B16(3) ENG Writing for Media (Elective 01)

B.C.A

SEMESTER 1	1. 1B01BCA Programming In C 2. 1A11BCA Informatics for Computer Applications
SEMESTER 2	3. 2B02BCA Digital Systems 4. 2B03BCA Object Oriented Programming Using C++ 5. 2B04BCA - Lab I: Programming In C 6. 2B05BCA - Lab II: Programming In C++
SEMESTER 3	7. 3A12BCA Data Structure 8. 3B06BCA Computer Organization 9. 3B07BCA Introduction to Microprocessors 10. 3A13BCA Database Management System
SEMESTER 4	11. 4A14BCA Numerical Analysis 12. 4B08BCA Operating System 13. 4B11BCA Data Structure and DBMS

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	14. 4B12BCA Java Programming, Shell Programming and Linux Administration 15. 4B10BCA Linux Administration 16. 4B09BCA Java Programming
SEMESTER 5	17. 5B13BCA Software Engineering 18. 5B14BCA Data Communication & Networks 19. 5B15BCA Enterprise Java Programming 20. 5B16BCA C# and .Net Programming
SEMESTER 6	21. 6B17BCA Web Technology 22. 4B18BCA Data Mining & Data Warehousing 23. 4B19BCA Elective – Information Security 24. 4B20BCA Elective – Algorithm Analysis and Design 25. 4B21BCA System Software 26. 4B22BCA Enterprise Java Programming 27. 4B23BCA Net Programming 28. 4B24BCA Web Technology 29. 4B25BCA Project

B.S.W

SEMESTER 1	1. 1B 01 BSW Introduction Social Work
SEMESTER 2	2. 2B 02 BSW Working with Communities 3. 2B 03 BSW Rural Camp & Training for Field Work
SEMESTER 3	4. 3B 04 BSW Social Welfare Administration 5. 3B 05 BSW Field Work – II 6. 3A11 CMN Disaster Management 7. 3A 12 CMN Reading on Indian Constitution, Secular Society and Sustainable Environment
SEMESTER 4	8. 4B 06 BSW Health Care



10



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	9. 4B 07 BSW Field Work – III 10. 4A13CMN Entrepreneurship 11. 4A14CMN History of Philosophy of Science
SEMESTER 5	12. 5B 08 BSW Social Work Research and Statistics 13. 5B 09 BSW Non – Formal Education 14. 5B 10 BSW Panchayati Raj System 15. 5B 11 BSW Study Tour and Field Work – IV 16. 5D 01 BSW History and Development of Social Work/ Kerala Economy
SEMESTER 6	17. 6B 08 BSW Communication for Development 18. 6B 09 BSW Problems of Developing Societies 19. 6B 10 BSW Weaker Sections of Indian Society 20. 6B 11 BSW Block Field Work – V 21. 6D 01 BSW Research Project

B.Com. Cooperation

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human Resource Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Cooperative Principles 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills for Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Management of Co operatives 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting



11

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	15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing 17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Co Operative Law
SEMESTER 6	19. 6B15 COM Management Accounting 20. 6B16 COM International business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Co-operative Accounting and Legislation 24. 6B20 COM PROJECT

BCom.C.A

(All the courses are same to B.Com. Co-operation, except 7)

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human Resource Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Computer Applications I 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills For Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Computer Application II 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting 15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing



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	17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Computer Application III
SEMESTER 6	19. 6B15 COM Management Accounting 20. 6B16 COM International Business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Computer Application IV 24. 6B20 COM PROJECT

B.B.A./B.B.M

SEMESTER 1	1. 1B01 BBA Principles and practices of management
SEMESTER 2	2. 2B02 BBA Business Environment 3. 2B03 BBA Business Communication
SEMESTER 3	4. 3A11/ COM/ BBA IT in Business 5. 3A12/ COM Numerical Skills 6. 3B04BBA Financial Accounting 7. 3B05BBA Operations Management 8. 3B06BBA Managerial skill Development Course (MSDC)
SEMESTER 4	9. 4B07 BBA Marketing Management 10. 4B08 BBA Corporate Accounting 11. 4B09 BBA Financial Management 12. 4B10 BBA Industrial Visit & Report (Study Tour) 13. 4A13COM/BBA Entrepreneurship Development & Project Management 14. 4A14COM/BBA Business Ethics and CSR
SEMESTER 5	15. 5 B10 BBM Business research methods 16. 5B11BBM Operation management 17. 5B12BBM Emerging trends in management




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	18. 5B09BBM Organisational Behaviour 19. 5B13BBM International business
SEMESTER 6	20. 6B16 BBM Retail Management 21. 6B14 BBM Consumer behaviour 22. 6B15BBM Sales and distribution management 23. 6B18 BBM Organization training and project work

B.B.A.T.T.M

(Same to B.B.A.)

SEMESTER 1	1. 1B01 BBA(TTM) Principles & Practice of Management
SEMESTER 2	2. 2 B02 BBA(TTM) Business Environment 3. 2B03 BBA(TTM) Business Communication

M.Sc. Chemistry

SEMESTER 1	1. CHE1C.01 Theoretical chemistry I 2. CHE1C.02 Inorganic chemistry I 3. CHE1C.03 Organic chemistry I 4. CHE1C.04 Physical chemistry I 5. CHE1 &2P 01 Inorganic chemistry practical 1 6. CHE1 &2P 02 Organic chemistry practical 1 7. CHE1 & 2P 03 Physical chemistry practical
SEMESTER 2	8. CHE1C.05 Theoretical chemistry II 9. CHE1C.06 Organic chemistry II 10. CHE1C.07 Physical chemistry II 11. CHE2E.01/02 Elective course 12. CHE1 &2P 01 Inorganic chemistry practical 1 13. CHE1 &2P 02 Organic chemistry practical 1 14. CHE1 &2P 03 Physical chemistry practical 1



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SEMESTER 3	15. CHE3C.08 Inorganic chemistry 2 16. CHE3C.09 Organic chemistry 3 17. CHE3C.10 Physical chemistry 3 18. CHE3E.03/04 Elective course 2 19. CHE3 & 4P 04 Inorganic chemistry practical 2 20. CHE3 & 4P 05 Organic chemistry 2 21. CHE3 & 4P 06 Physical chemistry practical 2
SEMESTER 4	22. CHE4C.11 Inorganic chemistry 3 23. CHE4C.12 Inter disciplinary topics and instrumentation 24. CHE4E.05/06 Elective course 3 25. CHE3 & 4P 04 Inorganic chemistry practical 2 26. CHE3 & 4P 05 Organic chemistry practical 2 27. CHE3 & 4P 06 Project 28. CHE4P Viva -voce

M.Sc. Mathematics

SEMESTER 1	1. MAT1C01 Basic Abstract Algebra 2. MAT1C02 Linear Algebra 3. MAT1C03 Real Analysis 4. MAT1C04 Basic Topology 5. MAT1C05 Differential Equations
SEMESTER 2	6. MAT1C06 Advanced Abstract Algebra 7. MAT1C07 Measure and Integration 8. MAT1C08 Advanced Topology 9. MAT1C09 Foundation of Complex Analysis 10. MAT1C10 Partial Differential Equations and Integral Equations

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M.A. English

SEMESTER 1	1. ENG1C01 British Literature Chaucer to seventeenth century 2. ENG1C02 British Literature: Eighteenth century 3. ENG1C03 Literary Criticism 4. ENG1C04 History and Structure of English Language 5. ENG1E02(Elective) Media Studies
SEMESTER 2	6. ENG2C05 Literature of the Romantic Period 7. ENG2C06 Literature of the Victorian Period 8. ENG2C07 Modern Literary Theory 9. ENG2E06(Elective) Dalit Writing

M.Com. Finance

SEMESTER 1	1. COM1C01 Business Environment and Policy 2. COM1C02 Quantitative Techniques & Operation Research 3. COM1C03 Management Information System 4. COM1C04 Organizational Behaviour 5. COM1C05 Accounting for Business Decisions
SEMESTER 2	6. COM2C06 Strategic Management 7. COM2C07 Research Methodology & Computer Application 8. COM2C08 Cost for Management Decision 9. COM2C09 Advanced Business Accounting 10. COM2C10 Financial Management



16

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V. COMPLEMENTARY COURSES (65)

B.Sc. Physics (8 Courses)	SEMESTER 1	1. 1C01MAT-PH Mathematics for Physics and Electronics 2. 1C01CHE Chemistry For physical and Biological Science)
	SEMESTER 2	3. 2C02MAT-PH Mathematics for Physics and Electronics 4. 2C02CHE Chemistry (For physical and Biological Science)
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical
	SEMESTER 4	7. 4C04 MAT-PH Mathematics for Physics and Electronics 8. 4C04CHE(PS) Chemistry (For Physical Science)
B.Sc. Chemistry (8 Courses)	SEMESTER 1	1. 1C01MAT Mathematics for Chemistry 1 2. 1C01PHY Complementary physics 1-mechanics
	SEMESTER 2	3. 2C02MAT Mathematics for Chemistry II 4. 2C02PHY Electricity Magnetism and Thermal Physics
	SEMESTER 3	5. 3C03MAT Mathematics for Chemistry III 6. 3C03PHY Optics and Photonics



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	SEMESTER 4	7. 4C04 MAT Mathematics for Chemistry IV 8. 4C05PHY Physics Practical
B.Sc. Mathematics (8 Courses)	SEMESTER 1	1. 1C01PHY - Mechanics 2. 1C01STA - Basic Statistics
	SEMESTER 2	3. 2C02PHY - Electricity, Magnetism and Thermodynamics 4. 2C02STA - Probability Theory and Random Variables
	SEMESTER 3	5. 3C03PHY - Optics and Photonics 6. 3C03STA - Probability Distributions
	SEMESTER 4	7. 4C04PHY - Physics Practical 8. 4C04STA - Statistical Inference
B.Sc. Microbiology (12 Courses)	SEMESTER 1	1. 1C 01CHE Chemistry for physical and biological Science 2. 1C 01BTC Environmental Biotechnology
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical 7. 3C 03 BTC Plant Biotechnology 8. 4C 05BTC Practical
	SEMESTER 4	9. 4C 04 CHE Chemistry for physical Science 10. 4C 05CHE Practical 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical



18

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B.S.W (4 Courses)	SEMESTER 1	1. 1.1C 01 PSY General Psychology
	SEMESTER 2	2. 2C02 PSY Social Psychology
	SEMESTER 3	3. 3C 03 Principles of Sociology
	SEMESTER 4	4. 4C 04 SOC Sociological Analysis
B.Com. Co-operation / B.Com. C. A/ B.B.A. (5 Courses)	SEMESTER 1	1. 1C01 BBA COM Business Statistics
	SEMESTER 2	2. 2C02 COM Quantitative Techniques for Business Decisions
	SEMESTER 3	3. 3C03 COM Basic Research Methodology 4. 3 C04 COM Business Regulatory Framework
	SEMESTER 4	5. 4C05COM Corporate Law and Business Regulation

VI. OPEN COURSES (10 Courses)

(Only for the Semester 5)

B.Sc. Physics	1. 1.5D01PHY:D.BIOPHYSICS
B.Sc. Chemistry	2. 5D01CHE -Chemistry in Service to Man
B.Sc. Microbiology	3. 5D03MCB Microbes and Environment



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B.Sc. Biochemistry	4. 5D01BCH Nutritional Biochemistry
B.Sc. Mathematics	5. 5D03MAT - Quantitative Arithmetic and Reasoning
B.A. English	6. 5D01(1) ENG English for Competitive Examinations
B.C.A	7. 5D02BCA Web Technology
B.Com. Cooperation & BCom. C. A	8. 5D01COM Basic Accounting
B.B.A.	9. 5D01BBM E Commerce
B.S.W	10. . 5D 01BSW History and Development of Social Work/ Kerala Economy

TOTAL COURSES: 375




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COURSES OFFERED IN THE YEAR-2017-18

I. ADDITIONAL COMMON COURSE IN MALAYALAM

(8 Courses)

SEMESTER 1	1. Sahitya Ganangal 1A07MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Sahitya Roopangal 1A07-MAL (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Sahityavum Vivarthanavum (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Gadhya Roopangal 2A08MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Gadhya Mathrukakal 2A08-1MAL (For the students of B.Com. Co-operation, B.Com.C.A, B.B.A) 6. Sahitya Vibhagangal 2A08-2MAL (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Malayala kavitha 3A09MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
SEMESTER 4	8. Rachana, Vivarthanam 4A10 MAL



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(For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

II. ADDITIONAL COMMON COURSE IN HINDI (8 Courses)

SEMESTER 1	1. Kavita aur Kahani 1A07HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Srujanatnak Sahitya 1A07-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Adhunik Sahitya 1A07-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Vyakaran ththa Rachana 2A08HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Sampreshaneey Hindi 2A08-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 6. Vyavaharik Hindi 2A08-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Gadhy ke Vividh Roop 3A09HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
SEMESTER 4	8. Natak aur Upanyas 4A10HIN (For the students of B.Sc. Chemistry, B.Sc. Physics,



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B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

III. COMMON COURSE IN ENGLISH (6 Courses)

SEMESTER 1	1. Communicative English I 1A01ENG 2. Language through Literature II 1A02ENG (For all Programs)
SEMESTER 2	3. Communicative English I 2A03ENG 4. Language through Literature II 2A04ENG (For all Programs)
SEMESTER 3	5. Readings in Prose and Poetry 3A05ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)
SEMESTER 4	6. Readings in Fiction and Drama 4A06ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)




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IV. CORE COURSES (315)

B.Sc. Physics

SEMESTER 1	1. 1B01PHY Physics primers
SEMESTER 2	2. 2B02PHY Electronics I
SEMESTER 3	3. 3B03 PHY Allied Physics 4. 4B05PHY Practical I
SEMESTER 4	5. 4B04PHY Optics 6. 4B05PHY Practical I
SEMESTER 5	7. 5B06PHY Electrodynamics-I 8. 5B07PHY Thermal Physics 9. 5B08PHY Classical Mechanics & Relativity 10. 5B09PHY Python Programming 11. 5B10PHY Atomic, Nuclear and Particle Physics 12. 6B16 PHY Practical II 13. 6B17PHY Practical III
SEMESTER 6	14. 6B11PHY Electrodynamics II 15. 6B12PHY Photonics and Spectroscopy 16. 6B13PHY Quantum Mechanics 17. 6B14PHY Electronics II 18. 6B15PHY E-Material Science [ELECTIVE] 19. 6B16PHY Practical 20. 6B17PHY Practical III 21. 6B18PHY Project



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B.Sc. Chemistry

SEMESTER 1	1. 1B01CHE Theoretical and inorganic chemistry
SEMESTER 2	2. 2B03CHE Analytical chemistry 3. 1B02CHE & 2B02CHE Volumetric analysis
SEMESTER 3	4. 3B04CHE Organic chemistry 1
SEMESTER 4	5. 4B06CHE Organic chemistry II 6. 3B05 CHE & 4B05CHE Practical 2 Inorganic qualitative analysis
SEMESTER 5	7. 5B07CHE Inorganic chemistry I 8. 5B08CHE Inorganic chemistry I 9. 5B09CHE Physical chemistry I 10. 5B10CHE Physical chemistry II 11. 5B07CHE Inorganic chemistry I
SEMESTER 6	12. 6B14CHE Organic chemistry III 13. 6B15CHE Physical chemistry III 14. 6B16CHE Physical methods in chemistry 15. 6B17 Environmental Chemistry (Elective) 16. 6B11CHE Gravimetric Analysis 17. 6B12CHE Organic chemistry 18. 6B18 CHE Physical Chemistry 19. 6B13CHE Project

B.Sc. Microbiology

SEMESTER 1	1. 1B 01 MCB General Microbiology
SEMESTER 2	2. 2 B02 MCB Microbial Taxonomy



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SEMESTER 3	3. 1B 03 MCB Microbial Physiology 4. 1B 04 MCB Microbiology Practical I 5. 3A 11 MCB Biochemistry for Microbiology 6. 3A 12 MCB Biophysics and Bioinformatics
SEMESTER 4	7. 4A 13 MCB Molecular Biology 8. 4A 14 MCB Microbial Genetics and Genetic Engineering 9. 4B 05 MCB Immunology 10. 4B 06 MCB Microbiology Practical II
SEMESTER 5	11. 5 B07 MCB Microbial Biotechnology 12. 5 B08 MCB Bacterial Diseases 13. 5 B09 MCB Environmental Microbiology 14. 5B10 MCB Disaster Management 15. 5 B11 MCB Ecology and Biodiversity 16. 5 B12 MCB Virology Mycology and Parasitology 17. 5 B13 MCB Microbiology Practical – III 18. 5 B14 MCB Microbiology Practical – IV
SEMESTER 6	19. 6 B15 MCB Food Microbiology 20. 6 B16 MCB Sanitation Microbiology 21. 6 B17 MCB Agricultural Microbiology and Plant Pathology 22. 6 B18 MCB Microbiology Practical – V 23. 6 B19 MCB Microbiology Practical – VI 24. 6 B20 MCB Project work

B.Sc. Biochemistry

SEMESTER 1	1. 1B01BCH Bio-organic Chemistry-I
SEMESTER 2	2. 1B02BCH Physical Aspects in Biochemistry
SEMESTER 3	3. 1B03BCH Biomolecules 4. 3B04BCH & 3B05BCH Practical 1, Part 1 & Practical 2, Part 1



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	5. 3A11BCH Cellular Biochemistry 6. 3A12BCH Molecular Biology
SEMESTER 4	7. 4A13BCH Biophysical & biochemical techniques 8. 4A14BCH Enzymology 9. 4B06BCH Physiological aspects of biochemistry 10. 4B04BCH & 4B05BCH Practical 1, Part II & Practical 2, Part II
SEMESTER 5	11. 5B07BCH Bioenergetics and general metabolism 12. 5B08BCH Computational techniques in biochemistry 13. 5B09BCH Immunology & Immunological Techniques 14. 5B10BCH Genetics I 15. 5B11BCH Practical 3, Part I Practical 4
SEMESTER 6	16. 6B13BCH Clinical biochemistry 17. 6B14BCH Genetics-II 18. 6B15BCH-A A Pharmaceutical chemistry 19. 6B15BCH-B Biochemistry of Health and Nutrition 20. 15BCH-C Fermentation and Food Technology 21. 6B11BCH & 6B12BCH Practical 3, Part II & Practical 4, Part II 22. 6B16BCH Project/Industrial Visit

B.Sc. Mathematics

SEMESTER 1	1. 1B01MAT Differential Calculations
SEMESTER 2	2. 1B02MAT Integral Calculus
SEMESTER 3	3. 1B03MAT Elements of Mathematics 1



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SEMESTER 4	4. 4A04MAT Elements of Mathematics 1
SEMESTER 5	5. 5B05MAT - Real Analysis 6. 5B06MAT Abstract Algebra 7. 5B07MAT Differential Equations, Laplace Transforms and Fourier Series 8. 5B08MAT Vector Calculus 9. 5B09MAT Graph Theory
SEMESTER 6	10. 6B10 Linear Algebra 11. 6B11MAT Numerical Methods, and Partial Differential Equations 12. 6B12MAT Complex Analysis 13. 6B13MAT Mathematical Analysis and Topology 14. 6B14MAT Operation Research 15. 6B15MAT Project

B.A. English

SEMESTER 1	1. 1B01 ENG History of English Language and Literature
SEMESTER 2	2. 2B02ENG Studies in Prose
SEMESTER 3	3. 3B03 ENG Linguistics 4. 3B4ENG English in the Internet Era
SEMESTER 4	5. 4B05NG Studies in poetry 6. 4B06ENG Literary Criticism
SEMESTER 5	7. 5B07ENG Modern Critical Theory 8. 5B08ENG Drama, Theory and Literature 9. 5B09NG Studies in Fiction 10. 5B10ENG Women's Writing
SEMESTER 6	11. 6B11ENG Project



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	12. 6B12ENG Malayalam literature in translation 13. 6B13ENG New Literatures in English 14. B14ENG Indian Writing in English 15. 6B15ENG Film Studies 16. 6B16(3) ENG Writing for Media (Elective 01)
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B.C.A

SEMESTER 1	1. 1B01BCA Programming In C 2. 1A11BCA Informatics for Computer Applications
SEMESTER 2	3. 2B02BCA Digital Systems 4. 2B03BCA Object Oriented Programming Using C++ 5. 2B04BCA - Lab I: Programming In C 6. 2B05BCA - Lab II: Programming In C++
SEMESTER 3	7. 3A12BCA Data Structure 8. 3B06BCA Computer Organization 9. 3B07BCA Introduction to Microprocessors 10. 3A13BCA Database Management System
SEMESTER 4	11. 4A14BCA Numerical Analysis 12. 4B08BCA Operating System 13. 4B11BCA Data Structure and DBMS 14. 4B12BCA Java Programming, Shell Programming and Linux Administration 15. 4B10BCA Linux Administration 16. 4B09BCA Java Programming
SEMESTER 5	17. 5B13BCA Software Engineering 18. 5B14BCA Data Communication & Networks 19. 5B15BCA Enterprise Java Programming 20. 5B16BCA C# and .Net Programming
SEMESTER 6	21. 6B17BCA Web Technology 22. 4B18BCA Data Mining & Data Warehousing 23. 4B19BCA Elective – Information Security



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	24. 4B20BCA Elective – Algorithm Analysis and Design 25. 4B21BCA System Software 26. 4B22BCA Enterprise Java Programming 27. 4B23BCA Net Programming 28. 4B24BCA Web Technology 29. 4B25BCA Project
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B.S.W

SEMESTER 1	1. 1B 01 BSW Introduction Social Work
SEMESTER 2	2. 2B 02 BSW Working with Communities 3. 2B 03 BSW Rural Camp & Training for Field Work
SEMESTER 3	4. 3B 04 BSW Social Welfare Administration 5. 3B 05 BSW Field Work – II 6. 3A11 CMN Disaster Management 7. 3A 12 CMN Reading on Indian Constitution, Secular Society and Sustainable Environment
SEMESTER 4	8. 4B 06 BSW Health Care 9. 4B 07 BSW Field Work – III 10. 4A13CMN Entrepreneurship 11. 4A14CMN History of Philosophy of Science
SEMESTER 5	12. 5B 08 BSW Social Work Research and Statistics 13. 5B 09 BSW Non – Formal Education 14. 5B 10 BSW Panchayati Raj System 15. 5B 11 BSW Study Tour and Field Work – IV 16. 5D 01 BSW History and Development of Social Work/ Kerala Economy
SEMESTER 6	17. 6B 08 BSW Communication for Development 18. 6B 09 BSW Problems of Developing Societies 19. 6B 10 BSW Weaker Sections of Indian Society



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	20. 6B 11 BSW Block Field Work – V 21. 6D 01 BSW Research Project
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B.Com. Cooperation

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human Resource Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Co operative Principles 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills for Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Management of Co operatives 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting 15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing 17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Co Operative Law
SEMESTER 6	19. 6B15 COM Management Accounting 20. 6B16 COM International Business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Co-operative Accounting and Legislation 24. 6B20 COM PROJECT



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GURUDEV ARTS & SCIENCE COLLEGE

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BCom.C.A

(All the courses are same to B.Com. Co-operation,except 7)

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human recourse Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Computer Applications I 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills For Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Computer Application II 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting 15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing 17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Computer Application III
SEMESTER 6	19. 6B15 COM Management Accounting 20. 6B16 COM International Business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Computer Application IV 24. 6B20 COM PROJECT



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B.B.A.

SEMESTER 1	1. 1B01 BBA Principles and practices of management
SEMESTER 2	2. 2B02 BBA Business Environment 3. 2B03 BBA Business Communication
SEMESTER 3	4. 3A11/ COM/ BBA IT in Business 5. 3A12/ COM Numerical Skills 6. 3B04BBA Financial Accounting 7. 3B05BBA Operations Management 8. 3B06BBA Managerial skill Development Course (MSDC)
SEMESTER 4	9. 4B08 BBA Corporate Accounting 10. 4B07 BBA Marketing Management 11. 4B09 BBA Financial Management 12. 4B10 BBA Industrial Visit & Report (Study Tour) 13. 4A13COM/BBA Entrepreneurship Development & Project Management 14. 4A14COM/BBA Business Ethics and CSR
SEMESTER 5	15. 5B11 BBA Cost Accounting 16. 5B12BBA Human Resource Management 17. 5B13BBA Banking Theory Law & Practice 18. 5B14BBA Organisational Behaviour 19. 5B15BBA Retail Management
SEMESTER 6	20. 6B16 BBA Strategic Management 21. 6B17 BBA Capital Market & Investment Management 22. 6B18 BBA International Business 23. 6B19 BBA Event Management 24. 6B20 BBA Management Accounting 25. 6B21 BBA Placement Training & Project Report



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B.B.A.T.T.M

(6 courses are same to B.B.A)

SEMESTER 1	1. 1B01 BBA(TTM) Principles & Practice of Management
SEMESTER 2	2. 2B02 BBA(TTM) Business Environment 3. 2B03 BBA(TTM) Business Communication
SEMESTER 3	4. 3B04 BBA(TTM) Fundamentals of Travel & Tourism 5. 3B05 BBA(TTM) Operations Management
SEMESTER 4	6. 4B07BBA(TTM) Marketing Management 7. 4B08 BBA(TTM) Cultural Heritage of India 8. 4B09 BBA (TTM) Financial Management 9. 4B10BBA(TTM) Industrial Visit & Report (Study Tour) 10. 4A13COM/BBA(TTM) Entrepreneurship Development & Project Management 11. 4A14COM/BBA Business Ethics and CSR

M.Sc. Chemistry

SEMESTER 1	1. CHE1C.01 Theoretical chemistry I 2. CHE1C.02 Inorganic chemistry I 3. CHE1C.03 Organic chemistry I 4. CHE1C.04 Physical chemistry I 5. CHE1 & 2P 01 Inorganic chemistry practical 1 6. CHE1 & 2P 02 Organic chemistry practical 1 7. CHE1 & 2P 03 Physical chemistry practical
SEMESTER 2	8. CHE1C.05 Theoretical chemistry II 9. CHE1C.06 Organic chemistry II 10. CHE1C.07 Physical chemistry II 11. CHE2E.01/02 Elective course 12. CHE1 & 2P 01 Inorganic chemistry practical 1



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	13. CHE1 &2P 02 Organic chemistry practical 1 14. CHE1 &2P 03 Physical chemistry practical 1
SEMESTER 3	15. CHE3C.08 Inorganic chemistry 2 16. CHE3C.09 Organic chemistry 3 17. CHE3C.10 Physical chemistry 3 18. CHE3E.03/04 Elective course 2 19. CHE3 &4P 04 Inorganic chemistry practical 2 20. CHE3 &4P 05 Organic chemistry2 21. CHE3 &4P 06 Physical chemistry practical 2
SEMESTER 4	22. CHE4C.11 Inorganic chemistry 3 23. CHE4C.12 Inter disciplinary topics and instrumentation 24. CHE4E.05/06 Elective course 3 25. CHE3 & 4P 04 Inorganic chemistry practical 2 26. CHE3 &4P 05 Organic chemistry practical 2 27. CHE3 &4P 06 Project 28. CHE4P Viva -voce

M.Sc. Mathematics

SEMESTER 1	1. MAT1C01 Basic Abstract Algebra 2. MAT1C02 Linear Algebra 3. MAT1C03 Real Analysis 4. MAT1C04 Basic Topology 5. MAT1C05 Differential Equations
SEMESTER 2	6. MAT1C06 Advanced Abstract Algebra 7. MAT1C07 Measure and Integration 8. MAT1C08 Advanced Topology 9. MAT1C09 Foundation of Complex Analysis 10. MAT1C10 Partial Differential Equations and Integral Equations
SEMESTER 3	11. MAT1C11 Number Theory 12. MAT1C12 Functional Analysis 13. MAT1C13 Complex Function Theory 14. MAT1C14 Advanced Real Analysis



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SEMESTER 4	15. MAT3E01/02/03 Elective-1
	16. MAT4C15 Operator Theory
	17. MAT4C16 Differential Geometry
	18. MAT4E01/02/03 Elective-2
	19. MAT4D01 Project Work
	20. MAT4V01 Viva-Voce

M.A. English

SEMESTER 1	1. ENG1C01 British Literature Chaucer to seventeenth century 2. ENG1C02 British Literature: Eighteenth century 3. ENG1C03 Literary Criticism 4. ENG1C04 History and Structure of English Language 5. ENG1E02(Elective) Media Studies
SEMESTER 2	6. ENG2C05 Literature of the Romantic Period 7. ENG2C06 Literature of the Victorian Period 8. ENG2C07 Modern Literary Theory 9. ENG2E06(Elective) Dalit Writing
SEMESTER 3	10. ENG3C08 Twentieth Century British Literature 11. ENG3C09 Linguistics 12. ENG3C10 Indian Writing in English 13. ENG3C11 American Literature 14. ENG3E08 European Fiction (Elective)
SEMESTER 4	15. ENG4C12 Post-Colonial Writings 16. ENG4C13 Women's Writing 17. ENG4C14 Film Studies 18. ENG4C15 Comprehension 19. ENGPR16 Project



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M.Com. Finance

SEMESTER 1	1. COM1C01 Business Environment and Policy 2. COM1C02 Quantitative Techniques & Operation Research 3. COM1C03 Management Information System 4. COM1C04 Organizational Behaviour 5. COM1C05 Accounting for Business Decisions
SEMESTER 2	6. COM2C06 Strategic Management 7. COM2C07 Research Methodology & Computer Application 8. COM2C08 Cost for Management Decision 9. COM2C09 Advanced Business Accounting 10. COM2C10 Financial Management
SEMESTER 3	11. COM2C11 Marketing Management 12. COM2C12 Corporate Accounting 13. COM2C13 Income Tax Law and Practice 14. COM2C14 Wealth Tax and Indirect Tax 15. COM2C15 Human Resource Management
SEMESTER 4	16. COM4E01 Security Analysis & Portfolio Management 17. COM4E02 International Financial Management 18. COM4E03 Financial Market and Services




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	19. COM4E04 Corporate Tax Planning & management
	20. COM4EPR Project

V. COMPLEMENTARY COURSES (67)

B.Sc. Physics (8 Courses)	SEMESTER 1	1. 1C01MAT-PH Mathematics for Physics and Electronics 2. 1C01CHE Chemistry For physical and Biological Science)
	SEMESTER 2	3. 2C02MAT-PH Mathematics for Physics and Electronics 4. 2C02CHE Chemistry (For physical and Biological Science)
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical
	SEMESTER 4	7. 4C04 MAT-PH Mathematics for Physics and Electronics 8. 4C04CHE(PS) Chemistry (For Physical Science)
B.Sc. Chemistry (8 Courses)	SEMESTER 1	1. 1C01MAT Mathematics for Chemistry 1 2. 1C01PHY Complementary physics 1- mechanics
	SEMESTER 2	3. 2C02MAT Mathematics for Chemistry II 4. 2C02PHY Electricity Magnetism and Thermal Physics



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	SEMESTER 3	5. 3C03MAT Mathematics for Chemistry III 6. 3C03PHY Optics and Photonics
	SEMESTER 4	7. 4C04 MAT Mathematics for Chemistry IV 8. 4C05PHY Physics Practical
B.Sc. Mathematics (8 Courses)	SEMESTER 1	1. 1C01PHY - Mechanics 2. 1C01STA - Basic Statistics
	SEMESTER 2	3. 2C02PHY - Electricity, Magnetism and Thermodynamics 4. 2C02STA - Probability Theory and Random Variables
	SEMESTER 3	5. 3C03PHY - Optics and Photonics 6. 3C03STA - Probability Distributions
	SEMESTER 4	7. 4C04PHY - Physics Practical 8. 4C04STA - Statistical Inference
B.Sc. Microbiology (12 Courses)	SEMESTER 1	1. 1C 01CHE Chemistry for physical and biological Science 2. 1C 01BTC Environmental Biotechnology
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical 7. 3C 03 BTC Plant Biotechnology 8. 4C 05BTC Practical
	SEMESTER 4	9. 4C 04 CHE Chemistry for physical Science 10. 4C 05CHE Practical 11. 4C 04BTC Biotechnology



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		12. 4C 05BTC Biotechnology Practical
B.Sc. Biochemistry (12 Courses)	SEMESTER 1	1. 1C01BTC Environmental Biotechnology 2. 1C01MCB Basic Microbiology I
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03 MCB Applied Microbiology I 6. 3C 06 MCB Microbiology Practical I 7. 3C 03 BTC Plant Biotechnology 8. 3C 04 MCB Microbiology (Complementary) - Practical I
	SEMESTER 4	9. 4C 05 MCB Applied Microbiology II 10. 4C 06 MCB Microbiology Practical II 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.A. English (4 Courses)	SEMESTER 1	1. 1C01 JNL Introduction to Mass Communication
	SEMESTER 2	2. 2C02JNL Print Media Journalism
	SEMESTER 3	3. 3C05 POL Basic concept in political science
	SEMESTER 4	4. 4C06 POL Human Rights in India
B.C.A (4 Courses)	SEMESTER 1	1. 1C01MAT Mathematics I for BCA
	SEMESTER 2	2. 2C02MAT Mathematics II for BCA
	SEMESTER 3	3. 3C03MAT Mathematics III for BCA



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	SEMESTER 4	4. 4C04MAT Mathematics IV for BCA
B.S.W (4 Courses)	SEMESTER 1	1. 1C 01 PSY General Psychology
	SEMESTER 2	2. 2C02 PSY Social Psychology
	SEMESTER 3	3. 3C 03 Principles of Sociology
	SEMESTER 4	4. 4C 04 SOC Sociological Analysis
B.Com. Co-operation / B.Com. C. A/ B.B.A./B.B.A.T.T.M (7 Courses)	SEMESTER 1	1. 1C01 BBA COM Business Statistics
	SEMESTER 2	2. 2C02 COM Quantitative Techniques for Business Decisions
	SEMESTER 3	3. 3C03 COM Basic Research Methodology 4. 3 C04 COM Business Regulatory Framework 5. 3C04 BBA(TTM) Legal aspects of Business
	SEMESTER 4	6. 4C05COM Corporate Law and Business Regulation 7. 4C05 BBA(TTM) Business Research Methods

VI. OPEN COURSES (10 Courses)

(Only for the Semester 5)

B.Sc. Physics	1. 1.5D01PHY:D.BIOPHYSICS
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B.Sc. Chemistry	2. 5D01CHE -Chemistry in Service to Man
B.Sc. Microbiology	3. 5D03MCB Microbes and Environment
B.Sc. Biochemistry	4. 5D01BCH Nutritional Biochemistry
B.Sc. Mathematics	5. 5D03MAT - Quantitative Arithmetic and Reasoning
B.A. English	6. 5D01(1) ENG English for Competitive Examinations
B.C.A	7. 5D02BCA Web Technology
B.Com. Cooperation & BCom. C. A	8. 5D01COM Basic Accounting
B.B.A.	9. 5D01BBM E Commerce
B.S.W	10. . 5D 01BSW History and Development of Social Work/ Kerala Economy

TOTAL COURSES : 414




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COURSES OFFERED IN THE YEAR-2018-19

I. ADDITIONAL COMMON COURSE IN MALAYALAM

(8 Courses)

SEMESTER 1	1. Sahitya Ganangal 1A07MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Sahitya Roopangal 1A07-MAL (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Sahityavum Vivarthanavum (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Gadhya Roopangal 2A08MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Gadhya Mathrukakal 2A08-1MAL (For the students of B.Com. Co-operation, B.Com.C.A, B.B.A) 6. Sahitya Vibhagangal 2A08-2MAL (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Malayala kavitha 3A09MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)




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SEMESTER 4	8. Rachana, Vivarthanam 4A10 MAL (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
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II. ADDITIONAL COMMON COURSE IN HINDI (8 Courses)

SEMESTER 1	1. Kavita aur Kahani 1A07HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. Srujanatnak Sahitya 1A07-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. Adhunik Sahitya 1A07-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. Vyakaran ththa Rachana 2A08HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. Sampreshaneey Hindi 2A08-1HIN (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 6. Vyavaharik Hindi 2A08-2HIN (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. Gadhy ke Vividh Roop 3A09HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)





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SEMESTER 4	8. Natak aur Upanyas 4A10HIN (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
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III. COMMON COURSE IN ENGLISH (6 Courses)

SEMESTER 1	1. Communicative English I 1A01ENG 2. Language through Literature II 1A02ENG (For all Programs)
SEMESTER 2	3. Communicative English I 2A03ENG 4. Language through Literature II 2A04ENG (For all Programs)
SEMESTER 3	5. Readings in Prose and Poetry 3A05ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)
SEMESTER 4	6. Readings in Fiction and Drama 4A06ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)




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IV. CORE COURSES (325)

B.Sc. Physics

SEMESTER 1	1. 1B01PHY Physics primers
SEMESTER 2	2. 2B02PHY Electronics I
SEMESTER 3	3. 3B03 PHY Allied Physics 4. 4B05PHY Practical I
SEMESTER 4	5. 4B04PHY Optics 6. 4B05PHY Practical I
SEMESTER 5	7. 5B06PHY Electrodynamics-I 8. 5B07PHY Thermal Physics 9. 5B08PHY Classical Mechanics & Relativity 10. 5B09PHY Python Programming 11. 5B10PHY Atomic, Nuclear and Particle Physics 12. 6B16 PHY Practical II 13. 6B17PHY Practical III
SEMESTER 6	14. 6B11PHY Electrodynamics II 15. 6B12PHY Photonics and Spectroscopy 16. 6B13PHY Quantum Mechanics 17. 6B14PHY Electronics II 18. 6B15PHY E-Material Science [ELECTIVE] 19. 6B16PHY Practical 20. 6B17PHY Practical III 21. 6B18PHY Project




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B.Sc. Chemistry

SEMESTER 1	1. 1B01CHE Theoretical and inorganic chemistry
SEMESTER 2	2. 2B03CHE Analytical chemistry 3. 1B02CHE & 2B02CHE Volumetric analysis
SEMESTER 3	4. 3B04CHE Organic chemistry 1
SEMESTER 4	5. 4B06CHE Organic chemistry II 6. 3B05 CHE & 4B05CHE Practical 2 Inorganic qualitative analysis
SEMESTER 5	7. 5B07CHE Inorganic chemistry I 8. 5B08CHE Inorganic chemistry I 9. 5B09CHE Physical chemistry I 10. 5B10CHE Physical chemistry II 11. 5B07CHE Inorganic chemistry I
SEMESTER 6	12. 6B14CHE Organic chemistry III 13. 6B15CHE Physical chemistry III 14. 6B16CHE Physical methods in chemistry 15. 6B17 Environmental Chemistry (Elective) 16. 6B11CHE Gravimetric Analysis 17. 6B12CHE Organic chemistry 18. 6B18 CHE Physical Chemistry 19. 6B13CHE Project

B.Sc. Microbiology

SEMESTER 1	1. 1B 01 MCB General Microbiology
SEMESTER 2	2. 2 B02 MCB Microbial Taxonomy



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SEMESTER 3	3. 1B 03 MCB Microbial Physiology 4. 1B 04 MCB Microbiology Practical I 5. 3A 11 MCB Biochemistry for Microbiology 6. 3A 12 MCB Biophysics and Bioinformatics
SEMESTER 4	7. 4A 13 MCB Molecular Biology 8. 4A 14 MCB Microbial Genetics and Genetic Engineering 9. 4B 05 MCB Immunology 10. 4B 06 MCB Microbiology Practical II
SEMESTER 5	11. 5 B07 MCB Microbial Biotechnology 12. 5 B08 MCB Bacterial Diseases 13. 5 B09 MCB Environmental Microbiology 14. 5B10 MCB Disaster Management 15. 5 B11 MCB Ecology and Biodiversity 16. 5 B12 MCB Virology Mycology and Parasitology 17. 5 B13 MCB Microbiology Practical – III 18. 5 B14 MCB Microbiology Practical – IV
SEMESTER 6	19. 6 B15 MCB Food Microbiology 20. 6 B16 MCB Sanitation Microbiology 21. 6 B17 MCB Agricultural Microbiology and Plant Pathology 22. 6 B18 MCB Microbiology Practical – V 23. 6 B19 MCB Microbiology Practical – VI 24. 6 B20 MCB Project work

B.Sc. Biochemistry

SEMESTER 1	1. 1B01BCH Bio-organic Chemistry-I
SEMESTER 2	2. 1B02BCH Physical Aspects in Biochemistry
SEMESTER 3	3. 1B03BCH Biomolecules



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	4. 3B04BCH &3B05BCH 5. Practical 1, Part 1 &Practical 2, Part 1 6. 3A11BCH Cellular Biochemistry 7. 3A12BCH Molecular Biology
SEMESTER 4	8. 4A13BCH Biophysical &biochemical techniques 9. 4A14BCH Enzymology 10. 4B06BCH Physiological aspects of biochemistry 11. 4B04BCH &4B05BCHPractical 1, Part II & Practical 2, Part II
SEMESTER 5	12. 5B07BCH Bioenergetics and general metabolism 13. 5B08BCH Computational techniques in biochemistry 14. 5B09BCH Immunology & Immunological Techniques 15. 5B10BCH Genetics I 16. 5B11BCH Practical 3, Part I Practical 4
SEMESTER 6	17. 6B13BCH Clinical biochemistry 18. 6B14BCH Genetics-II 19. 6B15BCH-A A Pharmaceutical chemistry 20. 6B15BCH-B Biochemistry of Health and Nutrition 21. 15BCH-C Fermentation and Food Technology 22. 6B11BCH &6B12BCH Practical 3, Part II &Practical 4, Part II 24.6B16BCH Project/Industrial Visit




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B.Sc. Mathematics

SEMESTER 1	1. 1B01MAT Differential Calculations
SEMESTER 2	2. 1B02MAT Integral Calculus
SEMESTER 3	3. 1B03MAT Elements of Mathematics 1
SEMESTER 4	4. 4A04MAT Elements of Mathematics 1
SEMESTER 5	5. 5B05MAT - Real Analysis 6. 5B06MAT Abstract Algebra 7. 5B07MAT Differential Equations, Laplace Transforms and Fourier Series 8. 5B08MAT Vector Calculus 9. 5B09MAT Graph Theory
SEMESTER 6	10. 6B10 Linear Algebra 11. 6B11MAT Numerical Methods, and Partial Differential Equations 12. 6B12MAT Complex Analysis 13. 6B13MAT Mathematical Analysis and Topology 14. 6B14BMAT Operation Research 15. 6B15MAT Project

B.A. English

SEMESTER 1	1. 1B01 ENG History of English Language and Literature
SEMESTER 2	2. 2B02ENG Studies in Prose



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SEMESTER 3	3. 3B03 ENG Linguistics 4. 3B4ENG English in the Internet Era
SEMESTER 4	5. 4B05NG Studies in poetry 6. 4B06ENG Literary Criticism
SEMESTER 5	7. 5B07ENG Modern Critical Theory 8. 5B08ENG Drama, Theory and Literature 9. 5B09NG Studies in Fiction 10. 5B10ENG Women's Writing
SEMESTER 6	11. 6B11ENG Project 12. 6B12ENG Malayalam literature in translation 13. 6B13ENG New Literatures in English 14. B14ENG Indian Writing in English 15. 6B15ENG Film Studies 16. 6B16(3)ENG Writing For Media(Elective 01)

B.C.A

SEMESTER 1	1. 1B01BCA Programming In C 2. 1A11BCA Informatics for Computer Applications
SEMESTER 2	3. 2B02BCA Digital Systems 4. 2B03BCA Object Oriented Programming Using C++ 5. 2B04BCA - Lab I: Programming In C 6. 2B05BCA - Lab II: Programming In C++
SEMESTER 3	7. 3A12BCA Data Structure 8. 3B06BCA Computer Organization 9. 3B07BCA Introduction to Microprocessors 10. 3A13BCA Database Management System
SEMESTER 4	11. 4A14BCA Numerical Analysis 12. 4B08BCA Operating System 13. 4B11BCA Data Structure and DBMS





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	14. 4B12BCA Java Programming, Shell Programming and Linux Administration 15. 4B10BCA Linux Administration 16. 4B09BCA Java Programming
SEMESTER 5	17. 5B13BCA Software Engineering 18. 5B14BCA Data Communication & Networks 19. 5B15BCA Enterprise Java Programming 20. 5B16BCA C# and .Net Programming
SEMESTER 6	21. 6B17BCA Web Technology 22. 4B18BCA Data Mining & Data Warehousing 23. 4B19BCA Elective – Information Security 24. 4B20BCA Elective – Algorithm Analysis and Design 25. 4B21BCA System Software 26. 4B22BCA Enterprise Java Programming 27. 4B23BCA Net Programming 28. 4B24BCA Web Technology 29. 4B25BCA Project

B.S.W

SEMESTER 1	1. 1B 01 BSW Introduction Social Work
SEMESTER 2	2. 2B 02 BSW Working with Communities 3. 2B 03 BSW Rural Camp & Training for Field Work
SEMESTER 3	4. 3B 04 BSW Social Welfare Administration 5. 3B 05 BSW Field Work – II 6. 3A11 CMN Disaster Management 7. 3A 12 CMN Reading on Indian Constitution, Secular Society and Sustainable Environment
SEMESTER 4	8. 4B 06 BSW Health Care 9. 4B 07 BSW Field Work – III 10. 4A13CMN Entrepreneurship



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SEMESTER 5	11. 4A14CMN History of Philosophy of Science 12. 5B 08 BSW Social Work Research and Statistics 13. 5B 09 BSW Non – Formal Education 14. 5B 10 BSW Panchayati Raj System 15. 5B 11 BSW Study Tour and Field Work – IV 16. 5D 01 BSW History and Development of Social Work/ Kerala Economy
SEMESTER 6	17. 6B 08 BSW Communication for Development 18. 6B 09 BSW Problems of Developing Societies 19. 6B 10 BSW Weaker Sections of Indian Society 20. 6B 11 BSW Block Field Work – V 21. 6D 01 BSW Research Project

B.Com. Cooperation

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human Resource Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Co operative Principles 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills for Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Management of Co operatives 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting 15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing 17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Co Operative Law





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SEMESTER 6	19. 6B15 COM Management Accounting 20. 6B16 COM International Business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Co-operative Accounting and Legislation 24. 6B20 COM PROJECT
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BCom.C.A

(All the courses are same to B.Com. Co-operation, except 7)

SEMESTER 1	1. 1B01 COM Management concepts and Principles 2. 1B02 COM Financial Accounting
SEMESTER 2	3. 2B03 COM Principles of Marketing 4. 2B04 COM Human resource Management
SEMESTER 3	5. 3B05 COM Advanced Accounting 6. 3B06 COM Computer Applications I 7. 3A11 COM Disaster Management 8. 3A12 COM Numerical Skills For Business
SEMESTER 4	9. 4B07 COM Income Tax Law and Practice I 10. 4B08 COM Informatics Skills 11. 4B09 COM Computer Application II 12. 4A13 COM Entrepreneurship 13. 4A14 COM Environment studies
SEMESTER 5	14. 5B10 COM Cost Accounting 15. 5B11 COM Corporate Accounting 16. 5B12 COM Auditing 17. 5B13 COM Income Tax Law and Practice II 18. 5B14 COM Computer Application III
SEMESTER 6	19. 6B15 COM Management Accounting



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	20. 6B16 COM International Business 21. 6B17 COM Modern Banking 22. 6B18 COM Financial Market and Services 23. 6B19 COM Computer Application IV 24. 6B20 COM PROJECT
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B.B.A.

SEMESTER 1	1. 1B01 BBA Principles and practices of management
SEMESTER 2	2. 2B02 BBA Business Environment 3. 2B03 BBA Business Communication
SEMESTER 3	4. 3A11/ COM/ BBA IT in Business 5. 3A12/ COM Numerical Skills 6. 3B04BBA Financial Accounting 7. 3B05BBA Operations Management 8. 3B06BBA Managerial skill Development Course (MSDC)
SEMESTER 4	9. 4B08 BBA Corporate Accounting 10. 4B07 BBA Marketing Management 11. 4B09 BBA Financial Management 12. 4B10 BBA Industrial Visit & Report (Study Tour) 13. 4A13COM/BBA Entrepreneurship Development & Project Management 14. 4A14COM/BBA Business Ethics and CSR
SEMESTER 5	15. 5 B11 BBA Cost Accounting 16. 5B12BBA Human Resource Management 17. 5B13BBABanking Theory Law &Practice 18. 5B14BBAArganisational Behaviour 19. 5B15BBA Retail Management
SEMESTER 6	20. 6B16 BBA Strategic Management 21. 6B17 BBA Capital Market & Investment Management



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	22. 6B18 BBA International Business 23. 6B19 BBA Event Management 24. 6B20 BBA Management Accounting 25. 6B21 BBA Placement Training & Project Report
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B.B.A.T.T.M

(8 courses are same to B.B.A)

SEMESTER 1	1. 1B01 BBA(TTM) Principles & Practice of Management
SEMESTER 2	2. 2 B02 BBA(TTM) Business Environment 3. 2B03 BBA(TTM) Business Communication
SEMESTER 3	4. 3B04 BBA(TTM) Fundamentals of Travel & Tourism 5. 3B05 BBA(TTM) Operations Management
SEMESTER 4	6. 4B07 BBA(TTM) Marketing Management 7. 4B08 BBA(TTM) Cultural Heritage of India 8. 4B09 BBA (TTM) Financial Management 9. 4B10 BBA(TTM) Industrial Visit & Report (Study Tour)
SEMESTER 5	10. 5 B10 BBM Tourism Management 11. 5B12 BBA(TTM) Human Resource Management 12. 5B13 BBA(TTM) Banking Theory & Practice 13. 5B11 BBA(TTM) Tourism Management 14. 5B14 BBA(TTM) Organizational Behaviour 15. 5B15 BBA(TTM) Travel & Travel Agency Management
SEMESTER 6	16. 6B16 BBA(TTM) Strategic Management 17. 6B17 BBA(TTM) Hospitality Management 18. 6B19 BBA(TTM) Event Management 19. 6B20 BBA(TTM) Cargo Operations Management 20. 6B21 BBA(TTM) Placement Training & Project



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	Report 21. 6B18 BBA(TTM) International Business
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M.Sc. Chemistry

SEMESTER 1	1. CHE1C.01 Theoretical chemistry I 2. CHE1C.02 Inorganic chemistry I 3. CHE1C.03 Organic chemistry I 4. CHE1C.04 Physical chemistry I 5. CHE1 & 2P 01 Inorganic chemistry practical 1 6. CHE1 & 2P 02 Organic chemistry practical 1 7. CHE1 & 2P 03 Physical chemistry practical
SEMESTER 2	8. CHE1C.05 Theoretical chemistry II 9. CHE1C.06 Organic chemistry II 10. CHE1C.07 Physical chemistry II 11. CHE2E.01/02 Elective course 12. CHE1 & 2P 01 Inorganic chemistry practical 1 13. CHE1 & 2P 02 Organic chemistry practical 1 14. CHE1 & 2P 03 Physical chemistry practical 1
SEMESTER 3	15. CHE3C.08 Inorganic chemistry 2 16. CHE3C.09 Organic chemistry 3 17. CHE3C.10 Physical chemistry 3 18. CHE3E.03/04 Elective course 2 19. CHE3 & 4P 04 Inorganic chemistry practical 2 20. CHE3 & 4P 05 Organic chemistry 2 21. CHE3 & 4P 06 Physical chemistry practical 2
SEMESTER 4	22. CHE4C.11 Inorganic chemistry 3 23. CHE4C.12 Inter disciplinary topics and instrumentation 24. CHE4E.05/06 Elective course 3 25. CHE3 & 4P 04 Inorganic chemistry practical 2 26. CHE3 & 4P 05 Organic chemistry practical 2 27. CHE3 & 4P 06 Project 28. CHE4P Viva -voce



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M.Sc. Mathematics

SEMESTER 1	1. MAT1C01 Basic Abstract Algebra 2. MAT1C02 Linear Algebra 3. MAT1C03 Real Analysis 4. MAT1C04 Basic Topology 5. MAT1C05 Differential Equations
SEMESTER 2	6. MAT1C06 Advanced Abstract Algebra 7. MAT1C07 Measure and Integration 8. MAT1C08 Advanced Topology 9. MAT1C09 Foundation of Complex Analysis 10. MAT1C10 Partial Differential Equations and Integral Equations
SEMESTER 3	11. MAT1C11 Number Theory 12. MAT1C12 Functional Analysis 13. MAT1C13 Complex Function Theory 14. MAT1C14 Advanced Real Analysis 15. MAT3E01/02/03 Elective-1
SEMESTER 4	16. MAT4C15 Operator Theory 17. MAT4C16 Differential Geometry 18. MAT4E01/02/03 Elective-2 19. MAT4D01 Project Work 20. MAT4V01 Viva-Voce



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M.A. English

SEMESTER 1	1. ENG1C01 British Literature Chaucer to seventeenth century 2. ENG1C02 British Literature: Eighteenth century 3. ENG1C03 Literary Criticism 4. ENG1C04 History and Structure of English Language 5. ENG1E02(Elective) Media Studies
SEMESTER 2	6. ENG2C05 Literature of the Romantic Period 7. ENG2C06 Literature of the Victorian Period 8. ENG2C07 Modern Literary Theory 9. ENG2E06(Elective) Dalit Writing
SEMESTER 3	10. ENG3C08 Twentieth Century British Literature 11. ENG3C09 Linguistics 12. ENG3C10 Indian Writing in English 13. ENG3C11 American Literature 14. 14. ENG3E08 European Fiction (Elective)
SEMESTER 4	15. ENG4C12 Post-Colonial Writings 16. ENG4C13 Women's Writing 17. ENG4C14 Film Studies 18. ENG4C15 Comprehension 19. ENGPR16 Project



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M.Com. Finance

SEMESTER 1	1. COM1C01 Business Environment and Policy 2. COM1C02 Quantitative Techniques & Operation Research 3. COM1C03 Management Information System 4. COM1C04 Organizational Behaviour 5. COM1C05 Accounting for Business Decisions
SEMESTER 2	6. COM2C06 Strategic Management 7. COM2C07 Research Methodology & Computer Application 8. COM2C08 Cost for Management Decision 9. COM2C09 Advanced Business Accounting 10. COM2C10 Financial Management
SEMESTER 3	11. COM2C11 Marketing Management 12. COM2C12 Corporate Accounting 13. COM2C13 Income Tax Law and Practice 14. COM2C14 Wealth Tax and Indirect Tax 15. COM2C15 Human Resource Management
SEMESTER 4	16. COM4E01 Security Analysis & Portfolio Management 17. COM4E02 International Financial Management 18. COM4E03 Financial Market and Services




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| | 19. COM4E04 Corporate Tax Planning
& management
20. COM4EPR Project |
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V. COMPLEMENTARY COURSES (67)

B.Sc. Physics (8 Courses)	SEMESTER 1	1. 1C01MAT-PH Mathematics for Physics and Electronics 2. 1C01CHE Chemistry For physical and Biological Science)
	SEMESTER 2	3. 2C02MAT-PH Mathematics for Physics and Electronics 4. 2C02CHE Chemistry (For physical and Biological Science)
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical
	SEMESTER 4	7. 4C04 MAT-PH Mathematics for Physics and Electronics 8. 4C04CHE(PS) Chemistry (For Physical Science)
B.Sc. Chemistry (8Courses)	SEMESTER 1	1. 1C01MAT Mathematics for Chemistry 1 2. 1C01PHY Complementary physics 1- mechanics
	SEMESTER 2	3. 2C02MAT Mathematics for Chemistry II 4. 2C02PHY Electricity Magnetism and Thermal Physics



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	SEMESTER 3	5. 3C03MAT Mathematics for Chemistry III 6. 3C03PHY Optics and Photonics
	SEMESTER 4	7. 4C04 MAT Mathematics for Chemistry IV 8. 4C05PHY Physics Practical
B.Sc. Mathematics (8 Courses)	SEMESTER 1	1. 1C01PHY - Mechanics 2. 1C01STA - Basic Statistics
	SEMESTER 2	3. 2C02PHY - Electricity, Magnetism and Thermodynamics 4. 2C02STA - Probability Theory and Random Variables
	SEMESTER 3	5. 3C03PHY - Optics and Photonics 6. 3C03STA - Probability Distributions
	SEMESTER 4	7. 4C04PHY - Physics Practical 8. 4C04STA - Statistical Inference
B.Sc. Microbiology (12 Courses)	SEMESTER 1	1. 1C 01CHE Chemistry for physical and biological Science 2. 1C 01BTC Environmental Biotechnology
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical 7. 3C 03 BTC Plant Biotechnology 8. 4C 05BTC Practical
	SEMESTER 4	9. 4C 04 CHE Chemistry for physical Science 10. 4C 05CHE Practical 11. 4C 04BTC Biotechnology



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		12. 4C 05BTC Biotechnology Practical
B.Sc. Biochemistry (12 Courses)	SEMESTER 1	1. 1C01BTC Environmental Biotechnology 2. 1C01MCB Basic Microbiology I
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03 MCB Applied Microbiology I 6. 3C 06 MCB Microbiology Practical I 7. 3C 03 BTC Plant Biotechnology 8. 3C 04 MCB Microbiology (Complementary) - Practical I
	SEMESTER 4	9. 4C 05 MCB Applied Microbiology II 10. 4C 06 MCB Microbiology Practical II 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.A. English (4 Courses)	SEMESTER 1	1. 1C01 JNL Introduction to Mass Communication
	SEMESTER 2	2. 2C02JNL Print Media Journalism
	SEMESTER 3	3. 3C05 POL Basic concept in political science
	SEMESTER 4	4. 4C06 POL Human Rights in India
B.C.A (4 Courses)	SEMESTER 1	1. 1C01MAT Mathematics I for BCA
	SEMESTER 2	2. 2C02MAT Mathematics II for BCA



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	SEMESTER 3	3. 3C03MAT Mathematics III for BCA
	SEMESTER 4	4. 4C04MAT Mathematics IV for BCA
B.S.W (4 Courses)	SEMESTER 1	1.1C 01 PSY General Psychology
	SEMESTER 2	2. 2C02 PSY Social Psychology
	SEMESTER 3	3. 3C 03 Principles of Sociology
	SEMESTER 4	4. 4C 04 SOC Sociological Analysis
B.Com. Co-operation / B.Com. C. A/ B.B.A./B.B.A.T.T.M (7 Courses)	SEMESTER 1	1. 1C01 BBA COM Business Statistics
	SEMESTER 2	2. 2C02 COM Quantitative Techniques for Business Decisions
	SEMESTER 3	3. 3C03 COM Basic Research Methodology 4. 3 C04 COM Business Regulatory Framework 5. 3C04 BBA(TTM) Legal aspects of Business
	SEMESTER 4	6. 4C05COM Corporate Law and Business Regulation 7. 4C05 BBA(TTM) Business Research Methods



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VI. OPEN COURSES (10 Courses)

(Only for the Semester 5)

B.Sc. Physics	1. 1.5D01PHY:D.BIOPHYSICS
B.Sc. Chemistry	2. 5D01CHE -Chemistry in Service to Man
B.Sc. Microbiology	3. 5D03MCB Microbes and Environment
B.Sc. Biochemistry	4. 5D01BCH Nutritional Biochemistry
B.Sc. Mathematics	5. 5D03MAT - Quantitative Arithmetic and Reasoning
B.A. English	6. 5D01(1) ENG English for Competitive Examinations
B.C.A	7. 5D02BCA Web Technology
B.Com. Cooperation & BCom. C. A	8. 5D01COM Basic Accounting
B.B.A.	9. 5D01BBM E Commerce
B.S.W	10. 5D 01BSW History and Development of Social Work/ Kerala Economy

TOTAL COURSES: 424




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COURSES OFFERED IN THE YEAR-2019-20

I. ADDITIONAL COMMON COURSE IN MALAYALAM

(8 Courses)

SEMESTER 1	1A07MAL Kadha Mathrukakal (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 1A07-MAL Sahitya Roopangal (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 1A07-2MAL Sahitya Ganangal (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	2A08MAL Kavitha Mathrukakal (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2A08-1MAL Gadhya Roopangal (For the students of B.Com. Co-operation, B.Com.C.A, B.B.A) 2A08-2MAL Gadhya Mathrukakal (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	3A09MAL Malayala kavitha (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)



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SEMESTER 4	8. 4A10 MAL Rachana, Vivarthanam (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
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II. ADDITIONAL COMMON COURSE IN HINDI (8 Courses)

SEMESTER 1	1. 1A07HIN Hindi Kavitha (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. 1A07-1HIN Kavitha aur Kahani (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. 1A07-2HIN Naya Sahitya (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. 2A08HIN Rachana thatha Prayog (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. 2A08-1HIN Vyavaharik Hindi (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 6. 2A08-2HIN Sahitya aur Prayog (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. 3A09HIN Gadhy ke Vividh Roop (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)



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SEMESTER 4	8. 4A10HIN Natak aur Upanyas (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
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III. COMMON COURSE IN ENGLISH (6 Courses)

SEMESTER 1	1. 1A01ENG Communicative English 2. 1A02ENG Readings on Kerala (For all Programs)
SEMESTER 2	3. 2A03ENG Readings on Life and Nature 4. 2A04ENG Readings on Gender (For all Programs)
SEMESTER 3	5. Readings in Prose and Poetry 3A05ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)
SEMESTER 4	6. Readings in Fiction and Drama 4A06ENG (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)



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IV. CORE COURSES (322)

B.Sc. Physics

SEMESTER 1	1. 1B01PHY Mechanics I
SEMESTER 2	2. 2B02PHY Mathematical Physics and Error Analysis
SEMESTER 3	3. 3B03 PHY Allied Physics 4. 4B05PHY Practical I
SEMESTER 4	5. 4B04PHY Optics 6. 4B05PHY Practical I
SEMESTER 5	7. 5B06PHY Electrodynamics-I 8. 5B07PHY Thermal Physics 9. 5B08PHY Classical Mechanics & Relativity 10. 5B09PHY Python Programming 11. 5B10PHY Atomic, Nuclear and Particle Physics 12. 6B16 PHY Practical II 13. 6B17PHY Practical III
SEMESTER 6	14. 6B11PHY Electrodynamics II 15. 6B12PHY Photonics and Spectroscopy 16. 6B13PHY Quantum Mechanics 17. 6B14PHY Electronics II 18. 6B15PHY E-Material Science [ELECTIVE] 19. 6B16PHY Practical 20. 6B17PHY Practical III 21. 6B18PHY Project



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B.Sc. Chemistry

SEMESTER 1	1. 1B01CHE Theoretical and Inorganic Chemistry
SEMESTER 2	2. 2B03CHE Analytical and Inorganic chemistry-I 3. 1B02CHE & 2B02CHE Practical I Volumetric Analysis
SEMESTER 3	4. 3B04CHE Organic chemistry 1
SEMESTER 4	5. 4B06CHE Organic chemistry II 6. 3B05 CHE & 4B05CHE Practical 2 Inorganic qualitative analysis
SEMESTER 5	7. 5B07CHE Inorganic chemistry I 8. 5B08CHE Inorganic chemistry I 9. 5B09CHE Physical chemistry I 10. 5B10CHE Physical chemistry II 11. 5B07CHE Inorganic chemistry I
SEMESTER 6	12. 6B14CHE Organic chemistry III 13. 6B15CHE Physical chemistry III 14. 6B16CHE Physical methods in chemistry 15. 6B17 Environmental Chemistry (Elective) 16. 6B11CHE Gravimetric Analysis 17. 6B12CHE Organic chemistry 18. 6B18 CHE Physical Chemistry 19. 6B13CHE Project

B.Sc. Microbiology

SEMESTER 1	1. 1B 01 MCB Fundamentals of Microbiology
SEMESTER 2	2. 2 B02 MCB Microbial Diversity



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SEMESTER 3	3. 1B 03 MCB Microbial Physiology 4. 1B 04 MCB Microbiology Practical I 5. 3A 11 MCB Biochemistry for Microbiology 6. 3A 12 MCB Biophysics and Bioinformatics
SEMESTER 4	7. 4A 13 MCB Molecular Biology 8. 4A 14 MCB Microbial Genetics and Genetic Engineering 9. 4B 05 MCB Immunology 10. 4B 06 MCB Microbiology Practical II
SEMESTER 5	11. 5 B07 MCB Microbial Biotechnology 12. 5 B08 MCB Bacterial Diseases 13. 5 B09 MCB Environmental Microbiology 14. 5B10 MCB Disaster Management 15. 5 B11 MCB Ecology and Biodiversity 16. 5 B12 MCB Virology Mycology and Parasitology 17. 5 B13 MCB Microbiology Practical – III 18. 5 B14 MCB Microbiology Practical – IV
SEMESTER 6	19. 6 B15 MCB Food Microbiology 20. 6 B16 MCB Sanitation Microbiology 21. 6 B17 MCB Agricultural Microbiology and Plant Pathology 22. 6 B18 MCB Microbiology Practical – V 23. 6 B19 MCB Microbiology Practical – VI 24. 6 B20 MCB Project work

B.Sc. Biochemistry

SEMESTER 1	1. 1B01BCH Bio-organic Chemistry-I
SEMESTER 2	2. 1B02BCH Physical Aspects in Biochemistry
SEMESTER 3	3. 1B03BCH Biomolecules 4. 3B04BCH & 3B05BCH Practical 1, Part 1



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	&Practical 2, Part 1 5. 3A11BCH Cellular Biochemistry 6. 3A12BCH Molecular Biology
SEMESTER 4	7. 4A13BCH Biophysical &biochemical techniques 8. 4A14BCH Enzymology 9. 4B06BCH Physiological aspects of biochemistry 10. 4B04BCH &4B05BCHPractical 1, Part II & Practical 2, Part II
SEMESTER 5	11. 5B07BCH Bioenergetics and general metabolism 12. 5B08BCH Computational techniques in biochemistry 13. 5B09BCH Immunology & Immunological Techniques 14. 5B10BCH Genetics I 15. 5B11BCH Practical 3, Part I Practical 4
SEMESTER 6	16. 6B13BCH Clinical biochemistry 17. 6B14BCH Genetics-II 18. 6B15BCH-A A Pharmaceutical chemistry 19. 6B15BCH-B Biochemistry of Health and Nutrition 20. 15BCH-C Fermentation and Food Technology 21. 6B11BCH &6B12BCH Practical 3, Part II &Practical 4, Part II 22. 6B16BCH Project/Industrial Visit




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B.Sc. Mathematics

SEMESTER 1	1. 1B01MAT Set theory, Differential calculus and Numerical Methods
SEMESTER 2	2. 1B02MAT Integral Calculus and Logic
SEMESTER 3	3. 1B03MAT Elements of Mathematics 1
SEMESTER 4	4. 4A04MAT Elements of Mathematics 1
SEMESTER 5	5. 5B05MAT - Real Analysis 6. 5B06MAT Abstract Algebra 7. 5B07MAT Differential Equations, Laplace Transforms and Fourier Series 8. 5B08MAT Vector Calculus 9. 5B09MAT Graph Theory
SEMESTER 6	10. 6B10 Linear Algebra 11. 6B11MAT Numerical Methods, and Partial Differential Equations 12. 6B12MAT Complex Analysis 13. 6B13MAT Mathematical Analysis and Topology 14. 6B14BMAT Operation Research 15. 6B15MAT Project

B.A. English

SEMESTER 1	1. 1B01 ENG Malayalam literature in English translation
SEMESTER 2	2. 2B02ENG Academic Writing, Methodology i. and Research project
SEMESTER 3	3. 3B03 ENG Linguistics



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	4. 3B4ENG English in the Internet Era
SEMESTER 4	5. 4B05ENG Studies in poetry 6. 4B06ENG Literary Criticism
SEMESTER 5	7. 5B07ENG Modern Critical Theory 8. 5B08ENG Drama, Theory and Literature 9. 5B09ENG Studies in Fiction 10. 5B10ENG Women's Writing
SEMESTER 6	11. 6B11ENG Project 12. 6B12ENG Malayalam literature in translation 13. 6B13ENG New Literatures in English 14. B14ENG Indian Writing in English 15. 6B15ENG Film Studies 16. 6B16(3) ENG Writing For Media(Elective 01)

B.C.A

SEMESTER 1	1. 1B01BCA Programming In C 2. 1A11BCA Informatics for Computer Applications
SEMESTER 2	3. 2B02BCA Digital Systems 4. 2B03BCA Object Oriented Programming Using C++ 5. 2B04BCA - Lab I: Programming In C 6. 2B05BCA - Lab II: Programming In C++
SEMESTER 3	7. 3A12BCA Data Structure 8. 3B06BCA Computer Organization 9. 3B07BCA Introduction to Microprocessors 10. 3A13BCA Database Management System
SEMESTER 4	11. 4A14BCA Numerical Analysis 12. 4B08BCA Operating System 13. 4B11BCA Data Structure and DBMS 14. 4B12BCA Java Programming, Shell Programming and LinuxAdministration




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	15. 4B10BCA Linux Administration 16. 4B09BCA Java Programming
SEMESTER 5	17. 5B13BCA Software Engineering 18. 5B14BCA Data Communication & Networks 19. 5B15BCA Enterprise Java Programming 20. 5B16BCA C# and .Net Programming
SEMESTER 6	21. 6B17BCA Web Technology 22. 4B18BCA Data Mining & Data Warehousing 23. 4B19BCA Elective – Information Security 24. 4B20BCA Elective – Algorithm Analysis and Design 25. 4B21BCA System Software 26. 4B22BCA Enterprise Java Programming 27. 4B23BCA Net Programming 28. 4B24BCA Web Technology 29. 4B25BCA Project

B.S.W

SEMESTER 1	1. 1B 01 BSW Introduction Social Work
SEMESTER 2	2. 2B 02 BSW Working With Communities 3. 2B 03 BSW Rural Camp & Training for Field Work
SEMESTER 3	4. 3B 04 BSW Social Welfare Administration 5. 3B 05 BSW Field Work – II 6. 3A11 CMN Disaster Management 7. 3A 12 CMN Reading on Indian Constitution, Secular Society and Sustainable Environment
SEMESTER 4	8. 4B 06 BSW Health Care 9. 4B 07 BSW Field Work – III 10. 4A13CMN Entrepreneurship 11. 4A14CMN History of Philosophy of Science
SEMESTER 5	12. 5B 08 BSW Social Work Research and Statistics



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	13. 5B 09 BSW Non – Formal Education 14. 5B 10 BSW Panchayati Raj System 15. 5B 11 BSW Study Tour and Field Work – IV 16. 5D 01 BSW History and Development of Social Work/ Kerala Economy
SEMESTER 6	17. 6B 08 BSW Communication for Development 18. 6B 09 BSW Problems of Developing Societies 19. 6B 10 BSW Weaker Sections of Indian Society 20. 6B 11 BSW Block Field Work – V 21. 6D 01 BSW Research Project

B.Com. Cooperation

SEMESTER 1	1. 1B01 COM Principles and practices of management
SEMESTER 2	2. 2B02 COM Functional Applications and Management
SEMESTER 3	3. 3B05 COM Advanced Accounting 4. 3B06 COM Co-operative Principles 5. 3A11 COM Disaster Management 6. 3A12 COM Numerical Skills for Business
SEMESTER 4	7. 4B07 COM Income Tax Law and Practice I 8. 4B08 COM Informatics Skills 9. 4B09 COM Management of Co-operatives 10. 4A13 COM Entrepreneurship 11. 4A14 COM Environment studies
SEMESTER 5	12. 5B10 COM Cost Accounting 13. 5B11 COM Corporate Accounting 14. 5B12 COM Auditing 15. 5B13 COM Income Tax Law and Practice II



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SEMESTER 6	16. 5B14 COM Co Operative Law
	17. 6B15 COM Management Accounting
	18. 6B16 COM International Business
	19. 6B17 COM Modern Banking
	20. 6B18 COM Financial Market and Services
	21. 6B19 COM Co-operative Accounting and Legislation
	22. 6B20 COM PROJECT

BCom.C.A

(All the courses are same to B.Com. Co-operation,except 7)

SEMESTER 1	1. 1B01 COM Management concepts and principles
SEMESTER 2	2. 2B02 COM Functional Applications and Management
SEMESTER 3	3. 3B05 COM Advanced Accounting 4. 3B06 COM Computer Applications I 5. 3A11 COM Disaster Management 6. 3A12 COM Numerical Skills For Business
SEMESTER 4	7. 4B07 COM Income Tax Law and Practice I 8. 4B08 COM Informatics Skills 9. 4B09 COM Computer Application II 10. 4A13 COM Entrepreneurship 11. 4A14 COM Environment studies
SEMESTER 5	12. 5B10 COM Cost Accounting 13. 5B11 COM Corporate Accounting 14. 5B12 COM Auditing 15. 5B13 COM Income Tax Law and Practice II 16. 5B14 COM Computer Application III
SEMESTER 6	17. 6B15 COM Management Accounting





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	18. 6B16 COM International Business 19. 6B17 COM Modern Banking 20. 6B18 COM Financial Market and Services 21. 6B19 COM Computer Application IV 22. 6B20 COM PROJECT
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B.B.A.

SEMESTER 1	1. 1B01 BBA Principles and practices of management
SEMESTER 2	2. 2B02 BBA Business Environment 3. 2B03 BBA Business Communication
SEMESTER 3	4. 3A11/ COM/ BBA IT in Business 5. 3A12/ COM Numerical Skills 6. 3B04BBA Financial Accounting 7. 3B05BBA Operations Management 8. 3B06BBA Managerial skill Development Course (MSDC)
SEMESTER 4	9. 4B08 BBA Corporate Accounting 10. 4B07 BBA Marketing Management 11. 4B09 BBA Financial Management 12. 4B10 BBA Industrial Visit & Report (Study Tour) 13. 4A13COM/BBA Entrepreneurship Development & Project Management 14. 4A14COM/BBA Business Ethics and CSR
SEMESTER 5	15. 5 B11 BBA Cost Accounting 16. 5B12BBA Human Resource Management 17. 5B13BBABanking Theory Law &Practice 18. 5B14BBA Organisational Behaviour 19. 5B15BBA Retail Management
SEMESTER 6	20. 6B16 BBA Strategic Management 21. 6B17 BBA Capital Market & Investment Management 22. 6B18 BBA International Business



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	23. 6B19 BBA Event Management 24. 6B20 BBA Management Accounting 25. 6B21 BBA Placement Training & Project Report
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B.B.A.T.T.M

(8 courses are same to B.B.A)

SEMESTER 1	1. 1B01 BBA(TTM) Principles & Practice of Management
SEMESTER 2	2. 2 B02 BBA(TTM) Business Environment 3. 2B03 BBA(TTM) Business Communication
SEMESTER 3	4. 3B04 BBA(TTM) Fundamentals of Travel & Tourism 5. 3B05 BBA(TTM) Operations Management
SEMESTER 4	6. 4B07 BBA(TTM) Marketing Management 7. 4B08 BBA(TTM) Cultural Heritage of India 8. 4B09 BBA (TTM) Financial Management 9. 4B10 BBA(TTM) Industrial Visit & Report (Study Tour) 10. 4A13 COM/BBA(TTM) Entrepreneurship Development & Project Management 11. 4A14 COM/BBA Business Ethics and CSR
SEMESTER 5	12. 5 B10 BBM Tourism Management 13. 5B12 BBA(TTM) Human Resource Management 14. 5B13 BBA(TTM) Banking Theory & Practice 15. 5B11 BBA(TTM) Tourism Management 16. 5B14 BBA(TTM) Organizational Behaviour 17. 5B15 BBA(TTM) Travel & Travel Agency Management
SEMESTER 6	18. 6B16 BBA(TTM) Strategic Management 19. 6B17 BBA(TTM) Hospitality Management 20. 6B19 BBA(TTM) Event Management



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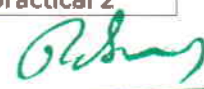
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	21. 6B20 BBA(TTM) Cargo Operations Management 22. 6B21 BBA(TTM) Placement Training & Project Report 23. 6B18 BBA(TTM) International Business
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M.Sc. Chemistry

SEMESTER 1	1. CHE1C.01 Theoretical chemistry I 2. CHE1C.02 Inorganic chemistry I 3. CHE1C.03 Organic chemistry I 4. CHE1C.04 Physical chemistry I 5. CHE1 & 2P 01 Inorganic chemistry practical 1 6. CHE1 & 2P 02 Organic chemistry practical 1 7. CHE1 & 2P 03 Physical chemistry practical
SEMESTER 2	8. CHE1C.05 Theoretical chemistry II 9. CHE1C.06 Organic chemistry II 10. CHE1C.07 Physical chemistry II 11. CHE2E.01/02 Elective course 12. CHE1 & 2P 01 Inorganic chemistry practical 1 13. CHE1 & 2P 02 Organic chemistry practical 1 14. CHE1 & 2P 03 Physical chemistry practical 1
SEMESTER 3	15. CHE3C.08 Inorganic chemistry 2 16. CHE3C.09 Organic chemistry 3 17. CHE3C.10 Physical chemistry 3 18. CHE3E.03/04 Elective course 2 19. CHE3 & 4P 04 Inorganic chemistry practical 2 20. CHE3 & 4P 05 Organic chemistry 2 21. CHE3 & 4P 06 Physical chemistry practical 2
SEMESTER 4	22. CHE4C.11 Inorganic chemistry 3 23. CHE4C.12 Inter disciplinary topics and instrumentation 24. CHE4E.05/06 Elective course 3 25. CHE3 & 4P 04 Inorganic chemistry practical 2 26. CHE3 & 4P 05 Organic chemistry practical 2





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	27. CHE3 &4P 06 Project 28. CHE4P Viva -voce
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M.Sc. Mathematics

SEMESTER 1	1. MAT1C01 Basic Abstract Algebra 2. MAT1C02 Linear Algebra 3. MAT1C03 Real Analysis 4. MAT1C04 Basic Topology 5. MAT1C05 Differential Equations
SEMESTER 2	6. MAT1C06 Advanced Abstract Algebra 7. MAT1C07 Measure and Integration 8. MAT1C08 Advanced Topology 9. MAT1C09 Foundation of Complex Analysis 10. MAT1C10 Partial Differential Equations and Integral Equations
SEMESTER 3	11. MAT1C11 Number Theory 12. MAT1C12 Functional Analysis 13. MAT1C13 Complex Function Theory 14. MAT1C14 Advanced Real Analysis 15. MAT3E01/02/03 Elective-1
SEMESTER 4	16. MAT4C15 Operator Theory 17. MAT4C16 Differential Geometry 18. MAT4E01/02/03 Elective-2 19. MAT4D01 Project Work 20. MAT4V01 Viva-Voce

M.A. English

SEMESTER 1	1. ENG1C01 British Literature Chaucer to seventeenth century 2. ENG1C02 British Literature: Eighteenth
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	century 3. ENG1C03 Literary Criticism 4. ENG1C04 History and Structure of English Language 5. ENG1E02(Elective) Media Studies
SEMESTER 2	6. ENG2C05 Literature of the Romantic Period 7. ENG2C06 Literature of the Victorian Period 8. ENG2C07 Modern Literary Theory 9. ENG2E06(Elective) Dalit Writing
SEMESTER 3	10. ENG3C08 Twentieth Century British Literature 11. ENG3C09 Linguistics 12. ENG3C10 Indian Writing in English 13. ENG3C11 American Literature 14. ENG3E08 European Fiction (Elective)
SEMESTER 4	15. ENG4C12 Post-Colonial Writings 16. ENG4C13 Women's Writing 17. ENG4C14 Film Studies 18. ENG4C15 Comprehension 19. ENGPR16 Project

M.Com. Finance

SEMESTER 1	1. COM1C01 Business Environment and Policy 2. COM1C02 Quantitative Techniques & Operation Research 3. COM1C03 Management Information System 4. COM1C04 Organizational Behaviour 5. COM1C05 Accounting for Business Decisions
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SEMESTER 2	6. COM2C06 Strategic Management 7. COM2C07 Research Methodology & Computer Application 8. COM2C08 Cost for Management Decision 9. COM2C09 Advanced Business Accounting 10. COM2C10 Financial Management
SEMESTER 3	11. COM2C11 Marketing Management 12. COM2C12 Corporate Accounting 13. COM2C13 Income Tax Law and Practice 14. COM2C14 Wealth Tax and Indirect Tax 15. COM2C15 Human Resource Management
SEMESTER 4	16. COM4E01 Security Analysis & Portfolio Management 17. COM4E02 International Financial Management 18. COM4E03 Financial Market and Services 19. COM4E04 Corporate Tax Planning & management 20. COM4EPR Project

V. COMPLEMENTARY COURSES (67)

B.Sc. Physics (8 Courses)	SEMESTER 1	1. 1C01MAT-PH Mathematics for Physics and Electronics 2. 1C01CHE Chemistry For physical and Biological Science)
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	SEMESTER 2	3. 2C02MAT-PH Mathematics for Physics 4. 2C02CHE Chemistry (For physical and Biological Science)
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical
	SEMESTER 4	7. 4C04 MAT-PH Mathematics for Physics and Electronics 8. 4C04CHE(PS) Chemistry (For Physical Science)
B.Sc. Chemistry (8 Courses)	SEMESTER 1	1. 1C01MAT Mathematics for Chemistry 1 2. 1C01PHY Complementary physics 1- mechanics
	SEMESTER 2	3. 2C02MAT Mathematics for Chemistry II 4. 2C02PHY Electricity Magnetism and Thermal Physics
	SEMESTER 3	5. 3C03MAT Mathematics for Chemistry III 6. 3C03PHY Optics and Photonics
	SEMESTER 4	7. 4C04 MAT Mathematics for Chemistry I 8. 4C05PHY Physics Practical
B.Sc. Mathematics (8 Courses)	SEMESTER 1	1. 1C01PHY - Mechanics 2. 1C01STA - Basic Statistics
	SEMESTER 2	3. 2C02PHY - Electricity, Magnetism and Thermodynamics 4. 2C02STA - Probability Theory and Random Variables



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	SEMESTER 3	5. 3C03PHY - Optics and Photonics 6. 3C03STA – Standard Distributions
	SEMESTER 4	7. 4C04PHY - Physics Practical 8. 4C04STA - Statistical Inference
B.Sc. Microbiology (12 Courses)	SEMESTER 1	1. 1C 01CHE Chemistry for physical and biological Science 2. 1C 01BTC Environmental Biotechnology
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical 7. 3C 03 BTC Plant Biotechnology 8. 4C 05BTC Practical
	SEMESTER 4	9. 4C 04 CHE Chemistry for physical Science 10. 4C 05CHE Practical 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.Sc. Biochemistry (12 Courses)	SEMESTER 1	1. 1C01BTC Environmental Biotechnology 2. 1C01MCB Basic Microbiology I
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03 MCB Applied Microbiology I 6. 3C 06 MCB Microbiology Practical II 7. 3C 03 BTC Plant Biotechnology 8. 3C 04 MCB Microbiology (Complementary) - Practical I



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	SEMESTER 4	9. 4C 05 MCB Applied Microbiology II 10. 4C 06 MCB Microbiology Practical II 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.A. English (4 Courses)	SEMESTER 1	1. 1C01 JNL Introduction to Mass Communication
	SEMESTER 2	2. 2C02JNL Print Media Journalism
	SEMESTER 3	3. 3C05 POL Basic concept in political science
	SEMESTER 4	4. 4C06 POL Human Rights in India
B.C.A (4 Courses)	SEMESTER 1	1. 1C01MAT Mathematics I for BCA
	SEMESTER 2	2. 2C02MAT Mathematics II for BCA
	SEMESTER 3	3. 3C03MAT Mathematics III for BCA
	SEMESTER 4	4. 4C04MAT Mathematics IV for BCA
B.S.W (4 Courses)	SEMESTER 1	1.1C 01 PSY General Psychology
	SEMESTER 2	2. 2C02 PSY Social Psychology
	SEMESTER 3	3. 3C 03 Principles of Sociology
	SEMESTER 4	4. 4C 04 SOC Sociological Analysis
B.Com. Co-	SEMESTER 1	1. 1C01 BBA COM Business Statistics



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operation / B.Com. C. A/ B.B.A./B.B.A.T.T.M (7 Courses)	SEMESTER 2	2. 2C02 COM Quantitative Techniques for Business Decisions
	SEMESTER 3	3. 3C03 COM Basic Research Methodology 4. 3 C04 COM Business Regulatory Framework 5. 3C04 BBA(TTM) Legal aspects of Business
	SEMESTER 4	6. 4C05COM Corporate Law and Business Regulation 7. 4C05 BBA(TTM) Business Research Methods

VI. OPEN COURSES (10 Courses)

(Only for the Semester 5)

B.Sc. Physics	1. 1.5D01PHY:D.BIOPHYSICS
B.Sc. Chemistry	2. 5D01CHE -Chemistry in Service to Man
B.Sc. Microbiology	3. 5D03MCB Microbes and Environment
B.Sc. Biochemistry	4. 5D01BCH Nutritional Biochemistry
B.Sc. Mathematics	5. 5D03MAT - Quantitative Arithmetic and Reasoning
B.A. English	6. 5D01(1) ENG English for Competitive Examinations
B.C.A	7. 5D02BCA Web Technology



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B.Com. Cooperation & BCom. C. A	8. 5D01COM Basic Accounting
B.B.A.	9. 5D01BBM E Commerce
B.S.W	10. . 5D 01BSW History and Development of Social Work/ Kerala Economy

TOTAL COURSES: 421




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COURSES OFFERED IN THE YEAR-2020-21

I. ADDITIONAL COMMON COURSE IN MALAYALAM (8 Courses)

SEMESTER 1	1A07MAL Kadha Mathrukakal (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 1A07-MAL Sahitya Roopangal (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 1A07-2MAL Sahitya Ganangal (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	2A08MAL Kavitha Mathrukakal (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2A08-1MAL Gadhyia Roopangal (For the students of B.Com. Co-operation, B.Com.C.A, B.B.A) 2A08-2MAL Gadhyia Mathrukakal (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	3A09MAL Gadhyia Sahityam (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
SEMESTER 4	4A10 MAL Drisya kala sahityam



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(For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

II. ADDITIONAL COMMON COURSE IN HINDI (8 Courses)

SEMESTER 1	1. 1A07HIN Hindi Kavitha (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 2. 1A07-1HIN Kavitha aur Kahani (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 3. 1A07-2HIN Naya Sahitya (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 2	4. 2A08HIN Rachana thatha Prayog (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English) 5. 2A08-1HIN Vyavaharik Hindi (For the students of B.Com. Co-operation, B.Com. C. A, B.B.A) 6. 2A08-2HIN Sahitya aur Prayog (For the students of B.Sc. Microbiology, BSc. Biochemistry, B.C.A, B.S.W)
SEMESTER 3	7. 3A09HIN Katha Sahitya (For the students of B.Sc. Chemistry, B.Sc. Physics, B.Sc. Mathematics, B.Sc. Psychology and B. A. English)
SEMESTER 4	8. Natak aur Ekanki 4A10HIN (For the students of B.Sc. Chemistry, B.Sc. Physics,



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B.Sc. Mathematics, B.Sc. Psychology and B. A. English)

III. COMMON COURSE IN ENGLISH (6 Courses)

SEMESTER 1	1. 1A01ENG Communicative English 2. 1A02ENG Readings on Kerala (For all Programs)
SEMESTER 2	3. 2A03ENG Readings on Life and Nature 4. 2A04ENG Readings on Gender (For all Programs)
SEMESTER 3	5. 3A05ENG Readings on Democracy and Secularism (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)
SEMESTER 4	6. 4A06ENG Readings on Philosophy of Knowledge (Only for B.Sc. Physics, Chemistry, Mathematics, Psychology and B.A. English)




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IV. CORE COURSES (341)

B.Sc. Physics

SEMESTER 1	1. 1B01PHY Mechanics I
SEMESTER 2	2. 2B02PHY Mathematical Physics and Error Analysis
SEMESTER 3	3. 3B03 PHY Allied Physics 4. 4B05PHY Practical I
SEMESTER 4	5. 4B04PHY Optics 6. 4B05PHY Practical I
SEMESTER 5	7. 5B06PHY Electrodynamics-I 8. 5B07PHY Thermal Physics 9. 5B08PHY Classical Mechanics & Relativity 10. 5B09PHY Python Programming 11. 5B10PHY Atomic, Nuclear and Particle Physics 12. 6B16 PHY Practical II 13. 6B17PHY Practical III
SEMESTER 6	14. 6B11PHY Electrodynamics II 15. 6B12PHY Photonics and Spectroscopy 16. 6B13PHY Quantum Mechanics 17. 6B14PHY Electronics II 18. 6B15PHY E-Material Science [ELECTIVE] 19. 6B16PHY Practical 20. 6B17PHY Practical III 21. 6B18PHY Project




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B.Sc. Chemistry

SEMESTER 1	1. 1B01CHE Theoretical and Inorganic Chemistry
SEMESTER 2	2. 2B03CHE Analytical and Inorganic chemistry-I 3. 1B02CHE & 2B02CHE Practical I Volumetric Analysis
SEMESTER 3	4. 3B04CHE Organic chemistry 1
SEMESTER 4	5. 4B06CHE Organic chemistry II 6. 3B05 CHE & 4B05CHE Practical 2 Inorganic qualitative analysis
SEMESTER 5	7. 5B07CHE Inorganic chemistry I 8. 5B08CHE Inorganic chemistry I 9. 5B09CHE Physical chemistry I 10. 5B10CHE Physical chemistry II 11. 5B07CHE Inorganic chemistry I
SEMESTER 6	12. 6B14CHE Organic chemistry III 13. 6B15CHE Physical chemistry III 14. 6B16CHE Physical methods in chemistry 15. 6B17 Environmental Chemistry (Elective) 16. 6B11CHE Gravimetric Analysis 17. 6B12CHE Organic chemistry 18. 6B18 CHE Physical Chemistry 19. 6B13CHE Project

B.Sc. Microbiology

SEMESTER 1	1. 1B 01 MCB Fundamentals of Microbiology
SEMESTER 2	2. 2 B02 MCB Microbial Diversity
SEMESTER 3	3. 3B 03 MCB Microbial Physiology 4. 3B 04 MCB Microbiology Practical I 5. 3A 11 MCB Biochemistry for Microbiology 6. 3A 12 MCB Biophysics and Bioinformatics



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SEMESTER 4	7. 4A 13 MCB Molecular Biology 8. 4A 14 MCB Microbial Genetics and Genetic Engineering 9. 4B 05 MCB Immunology 10. 4B 06 MCB Microbiology Practical II
SEMESTER 5	11. 5 B07 MCB Microbial Biotechnology 12. 5 B08 MCB Bacterial Diseases 13. 5 B09 MCB Environmental Microbiology 14. 5B10 MCB Disaster Management 15. 5 B11 MCB Ecology and Biodiversity 16. 5 B12 MCB Virology Mycology and Parasitology 17. 5 B13 MCB Microbiology Practical – III 18. 5 B14 MCB Microbiology Practical – IV
SEMESTER 6	19. 6 B15 MCB Food Microbiology 20. 6 B16 MCB Sanitation Microbiology 21. 6 B17 MCB Agricultural Microbiology and Plant Pathology 22. 6 B18 MCB Microbiology Practical – V 23. 6 B19 MCB Microbiology Practical – VI 24. 6 B20 MCB Project work

B.Sc. Biochemistry

SEMESTER 1	1. 1B01BCH Bio-organic Chemistry-I
SEMESTER 2	2. 1B02BCH Physical Aspects in Biochemistry
SEMESTER 3	3. 1B03BCH Biomolecules 4. 3B04BCH & 3B05BCH Practical 1, Part 1 & Practical 2, Part 1 5. 3A11BCH Cellular Biochemistry 6. 3A12BCH Molecular Biology
SEMESTER 4	7. 4A13BCH Biophysical & biochemical techniques 8. 4A14BCH Enzymology 9. 4B06BCH Physiological aspects of



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	biochemistry 10. 4B04BCH & 4B05BCH Practical 1, Part II & Practical 2, Part II
SEMESTER 5	11. 5B07BCH Bioenergetics and general metabolism 12. 5B08BCH Computational techniques in biochemistry 13. 5B09BCH Immunology & Immunological Techniques 14. 5B10BCH Genetics I 15. 5B11BCH Practical 3, Part I Practical 4
SEMESTER 6	16. 6B13BCH Clinical biochemistry 17. 6B14BCH Genetics-II 18. 6B15BCH-A A Pharmaceutical chemistry 19. 6B15BCH-B Biochemistry of Health and Nutrition 20. 15BCH-C Fermentation and Food Technology 21. 6B11BCH & 6B12BCH Practical 3, Part II & Practical 4, Part II 22. 6B16BCH Project/Industrial Visit

B.Sc. Mathematics

SEMESTER 1	1. 1B01MAT Set theory, Differential calculus and Numerical Methods
SEMESTER 2	2. 2B02MAT Integral Calculus and Logic
SEMESTER 3	3. 3B03MAT Analytic Geometry and Applications of Derivatives
SEMESTER 4	4. 4B04MAT Elements of Mathematics 1
SEMESTER 5	5. 5B05MAT - Real Analysis




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	6. 5B06MAT Abstract Algebra 7. 5B07MAT Differential Equations, Laplace Transforms and Fourier Series 8. 5B08MAT Vector Calculus 9. 5B09MAT Graph Theory
SEMESTER 6	10. 6B10 Linear Algebra 11. 6B11MAT Numerical Methods, and Partial Differential Equations 12. 6B12MAT Complex Analysis 13. 6B13MAT Mathematical Analysis and Topology 14. 6B14BMAT Operation Research 15. 6B15MAT Project

B.A. English

SEMESTER 1	1. 1B01 ENG Malayalam literature in English translation
SEMESTER 2	2. 2B02ENG Academic Writing, Methodology and Research project
SEMESTER 3	3. 3B03 ENG Linguistics 4. 3B4ENG English in the Internet Era
SEMESTER 4	5. 4B05NG Studies in poetry 6. 4B06ENG Literary Criticism
SEMESTER 5	7. 5B07ENG Modern Critical Theory 8. 5B08ENG Drama, Theory and Literature 9. 5B09NG Studies in Fiction 10. 5B10ENG Women's Writing
SEMESTER 6	11. 6B11ENG Project 12. 6B12ENG Malayalam literature in translation 13. 6B13ENG New Literatures in English 14. B14ENG Indian Writing in English 15. 6B15ENG Film Studies 16. 6B16(3) ENG Writing For Media(Elective 01)



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B.C.A

SEMESTER 1	1. 1B01BCA Programming In C 2. 1A11BCA Informatics for Computer Applications
SEMESTER 2	3. 2B02BCA Digital Systems 4. 2B03BCA Object Oriented Programming Using C++ 5. 2B04BCA - Lab I: Programming In C 6. 2B05BCA - Lab II: Programming In C++
SEMESTER 3	7. 3A12BCA Data Structure 8. 3B06BCA Computer Organization 9. 3B07BCA Introduction to Microprocessors 10. 3A13BCA Database Management System
SEMESTER 4	11. 4A14BCA Numerical Analysis 12. 4B08BCA Operating System 13. 4B11BCA Data Structure and DBMS 14. 4B12BCA Java Programming, Shell Programming and Linux Administration 15. 4B10BCA Linux Administration 16. 4B09BCA Java Programming
SEMESTER 5	17. 5B13BCA Software Engineering 18. 5B14BCA Data Communication & Networks 19. 5B15BCA Enterprise Java Programming 20. 5B16BCA C# and .Net Programming
SEMESTER 6	21. 6B17BCA Web Technology 22. 4B18BCA Data Mining & Data Warehousing 23. 4B19BCA Elective – Information Security 24. 4B20BCA Elective – Algorithm Analysis and Design 25. 4B21BCA System Software 26. 4B22BCA Enterprise Java Programming 27. 4B23BCA Net Programming 28. 4B24BCA Web Technology 29. 4B25BCA Project



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B.S.W

SEMESTER 1	1. 1B 01 BSW Introduction Social Work
SEMESTER 2	2. 2B 02 BSW Working with Communities 3. 2B 03 BSW Rural Camp & Training for Field Work
SEMESTER 3	4. 3B 04 BSW Social Welfare Administration 5. 3B 05 BSW Field Work – II 6. 3A11 CMN Disaster Management 7. 3A 12 CMN Reading on Indian Constitution, Secular Society and Sustainable Environment
SEMESTER 4	8. 4B 06 BSW Health Care 9. 4B 07 BSW Field Work – III 10. 4A13CMN Entrepreneurship 11. 4A14CMN History of Philosophy of Science
SEMESTER 5	12. 5B 08 BSW Social Work Research and Statistics 13. 5B 09 BSW Non – Formal Education 14. 5B 10 BSW Panchayati Raj System 15. 5B 11 BSW Study Tour and Field Work – IV 16. 5D 01 BSW History and Development of Social Work/ Kerala Economy
SEMESTER 6	17. 6B 08 BSW Communication for Development 18. 6B 09 BSW Problems of Developing Societies 19. 6B 10 BSW Weaker Sections of Indian Society 20. 6B 11 BSW Block Field Work – V 21. 6D 01 BSW Research Project

B.Com. Cooperation

SEMESTER 1	1. 1B01 COM Principles and practices of management
SEMESTER 2	2. 2B02 COM Functional Applications and Management




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SEMESTER 3	3. 3B05 COM Advanced Accounting 4. 3B06 COM Co-operative Principles 5. 3A11 COM Disaster Management 6. 3A12 COM Numerical Skills for Business
SEMESTER 4	7. 4B07 COM Income Tax Law and Practice I 8. 4B08 COM Informatics Skills 9. 4B09 COM Management of Co-operatives 10. 4A13 COM Entrepreneurship 11. 4A14 COM Environment studies
SEMESTER 5	12. 5B10 COM Cost Accounting 13. 5B11 COM Corporate Accounting 14. 5B12 COM Auditing 15. 5B13 COM Income Tax Law and Practice II 16. 5B14 COM Co-operative Law
SEMESTER 6	17. 6B15 COM Management Accounting 18. 6B16 COM International Business 19. 6B17 COM Modern Banking 20. 6B18 COM Financial Market and Services 21. 6B19 COM Co-operative Accounting and Legislation 22. 6B20 COM PROJECT

BCom. C. A*

(All the courses are same to B.Com. Co-operation, except 7)

SEMESTER 1	1. 1B01 COM Management concepts and principles
SEMESTER 2	2. 2B02 COM Functional Applications and Management
SEMESTER 3	3. 3B05 COM Advanced Accounting



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	4. 3B06 COM Computer Applications I 5. 3A11 COM Disaster Management 6. 3A12 COM Numerical Skills For Business
SEMESTER 4	7. 4B07 COM Income Tax Law and Practice I 8. 4B08 COM Informatics Skills 9. 4B09 COM Computer Application II 10. 4A13 COM Entrepreneurship 11. 4A14 COM Environment studies
SEMESTER 5	12. 5B10 COM Cost Accounting 13. 5B11 COM Corporate Accounting 14. 5B12 COM Auditing 15. 5B13 COM Income Tax Law and Practice II 16. 5B14 COM Computer Application III
SEMESTER 6	17. 6B15 COM Management Accounting 18. 6B16 COM International Business 19. 6B17 COM Modern Banking 20. 6B18 COM Financial Market and Services 21. 6B19 COM Computer Application IV 22. 6B20 COM PROJECT

B.B.A.

SEMESTER 1	1. 1B01 BBA Principles and practices of management
SEMESTER 2	2. 2B02 BBA Business Environment 3. 2B03 BBA Business Communication
SEMESTER 3	4. 3A11/ COM/ BBA IT in Business 5. 3A12/ COM Numerical Skills 6. 3B04BBA Financial Accounting 7. 3B05BBA Operations Management 8. 3B06BBA Managerial skill Development Course (MSDC)
SEMESTER 4	9. 4B08 BBA Corporate Accounting 10. 4B07 BBA Marketing Management 11. 4B09 BBA Financial Management



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	12. 4B10 BBA Industrial Visit & Report (Study Tour) 13. 4A13COM/BBA Entrepreneurship Development & Project Management 14. 4A14COM/BBA Business Ethics and CSR
SEMESTER 5	15. 5 B11 BBA Cost Accounting 16. 5B12BBA Human Resource Management 17. 5B13BBABanking Theory Law &Practice 18. 5B14BBAArganisational Behaviour 19. 5B15BBA Retail Management
SEMESTER 6	20. 6B16 BBA Strategic Management 21. 6B17 BBA Capital Market & Investment Management 22. 6B18 BBA International Business 23. 6B19 BBA Event Management 24. 6B20 BBA Management Accounting 25. 6B21 BBA Placement Training & Project Report

B.B.A.T.T.M

(8 courses are same to B.B.A)

SEMESTER 1	1. 1B01 BBA(TTM) Principles & Practice of Management
SEMESTER 2	2. 2 B02 BBA(TTM) Business Environment 3. 2B03 BBA(TTM) Business Communication
SEMESTER 3	4. 3B04 BBA(TTM)Fundamentals of Travel & Tourism 5. 3B05 BBA(TTM)Operations Management
SEMESTER 4	6. 4B07BBA(TTM)Marketing Management 7. 4B08 BBA(TTM)Cultural Heritage of India 8. 4B09 BBA (TTM) Financial Management) 9. 4B10BBA(TTM) Industrial Visit & Report (Study Tour) 10. 4A13COM/BBA(TTM) Entrepreneurship Development & Project Management 11. 4A14COM/BBA Business Ethics and CSR



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SEMESTER 5	12. 5 B10 BBM Tourism Management 13. 5B12 BBA(TTM) Human Resource Management 14. 5B13 BBA(TTM) Banking Theory & Practice 15. 5B11 BBA(TTM) Tourism Management 16. 5B14 BBA(TTM) Organizational Behaviour 17. 5B15 BBA(TTM) Travel & Travel Agency Management
SEMESTER 6	18. 6B16 BBA(TTM) Strategic Management 19. 6B17 BBA(TTM) Hospitality Management 20. 6B18 BBA(TTM) International Business 21. 6B19 BBA(TTM) Event Management 22. 6B20 BBA(TTM) Cargo Operations Management 23. 6B21 BBA(TTM) Placement Training & Project Report

B.Sc. Psychology

SEMESTER 1	1. 1B 01 PSY Basics of Psychology 2. 1B 02 PSY Self-development practices practical 1
SEMESTER 2	3. 2B 03 PSY Cognitive process 4. 2B 04 PSY Self-development practices practical 2

M.Sc. Chemistry

SEMESTER 1	1. CHE1C.01 Theoretical chemistry I 2. CHE1C.02 Inorganic chemistry I 3. CHE1C.03 Organic chemistry I 4. CHE1C.04 Physical chemistry I 5. CHE1 & 2P 01 Inorganic chemistry practical 1
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	6. CHE1 & 2P 02 Organic chemistry practical 1 7. CHE1 & 2P 03 Physical chemistry practical
SEMESTER 2	8. CHE2E01 Environmental Chemistry and Disaster Management 9. CHE1C.05 Theoretical chemistry II 10. CHE1C.06 Organic chemistry II 11. CHE1C.07 Physical chemistry II 12. CHE1 & 2P 01 Inorganic chemistry practical 1 13. CHE1 & 2P 02 Organic chemistry practical 1 14. CHE1 & 2P 03 Physical chemistry practical 1
SEMESTER 3	15. CHE3C.08 Inorganic chemistry 2 16. CHE3C.09 Organic chemistry 3 17. CHE3C.10 Physical chemistry 3 18. CHE3E.03/04 Elective course 2 19. CHE3 & 4P 04 Inorganic chemistry practical 2 20. CHE3 & 4P 05 Organic chemistry 2 21. CHE3 & 4P 06 Physical chemistry practical 2
SEMESTER 4	22. CHE4C.11 Inorganic chemistry 3 23. CHE4C.12 Inter disciplinary topics and instrumentation 24. CHE4E.05/06 Elective course 3 25. CHE3 & 4P 04 Inorganic chemistry practical 2 26. CHE3 & 4P 05 Organic chemistry practical 2 27. CHE3 & 4P 06 Project 28. CHE4P Viva -voce

M.Sc. Mathematics

SEMESTER 1	1. MAT1C01 Basic Abstract Algebra 2. MAT1C02 Linear Algebra 3. MAT1C03 Real Analysis 4. MAT1C04 Basic Topology 5. MAT1C05 Differential Equations
SEMESTER 2	6. MAT1C06 Advanced Abstract Algebra 7. MAT1C07 Measure and Integration




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	8. MAT1C08 Advanced Topology 9. MAT1C09 Foundation of Complex Analysis 10. MAT1C10 Partial Differential Equations and Integral Equations
SEMESTER 3	11. MAT1C11 Number Theory 12. MAT1C12 Functional Analysis 13. MAT1C13 Complex Function Theory 14. MAT1C14 Advanced Real Analysis 15. MAT3E01/02/03 Elective-1
SEMESTER 4	16. MAT4C15 Operator Theory 17. MAT4C16 Differential Geometry 18. MAT4E01/02/03 Elective-2 19. MAT4D01 Project Work 20. MAT4V01 Viva-Voce

M.A. English

SEMESTER 1	1. ENG1C01 British Literature Chaucer to seventeenth century 2. ENG1C02 British Literature: Eighteenth century 3. ENG1C03 Literary Criticism 4. ENG1C04 History and Structure of English Language 5. ENG1E02(Elective) Media Studies
SEMESTER 2	6. ENG2C05 Literature of the Romantic Period 7. ENG2C06 Literature of the Victorian Period 8. ENG2C07 Modern Literary Theory 9. ENG2E06(Elective) Dalit Writing
SEMESTER 3	10. 10.ENG3C08 Twentieth Century British Literature 11. ENG3C09 Linguistics



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	12. ENG3C10 Indian Writing in English 13. ENG3C11 American Literature 14. 14. ENG3E08 European Fiction (Elective)
SEMESTER 4	15. ENG4C12 Post-Colonial Writings 16. ENG4C13 Women's Writing 17. ENG4C14 Film Studies 18. ENG4C15 Comprehension 19. ENGP16 Project

M.Com. Finance

SEMESTER 1	1. COM1C01 Business Environment and Policy 2. COM1C02 Quantitative Techniques & Operation Research 3. COM1C03 Management Information System 4. COM1C04 Organizational Behaviour 5. COM1C05 Accounting for Business Decisions
SEMESTER 2	6. COM2C06 Strategic Management 7. COM2C07 Research Methodology & Computer Application 8. COM2C08 Cost for Management Decision 9. COM2C09 Advanced Business Accounting 10. COM2C10 Financial Management
SEMESTER 3	11. COM2C11 Marketing Management 12. COM2C12 Corporate Accounting 13. COM2C13 Income Tax Law and Practice 14. COM2C14 Wealth Tax and Indirect Tax 15. COM2C15 Human Resource Management
SEMESTER 4	16. COM4E01 Security Analysis & Portfolio Management 17. COM4E02 International Financial Management 18. COM4E03 Financial Market and Services



[Signature]
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	19. COM4E04 Corporate Tax Planning & management 20. COM4EPR Project
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M.Sc. Physics

SEMESTER 1	1. PHY1C01 Mathematical Physics-I 2. PHY1C02 Classical mechanics 3. PHY1C03 Electrodynamics 4. PHY1C04 Electronics 5. PHY1P01 Practical I Basic Physics Laboratory 6. PHY1P02 Practical II Computer & Electronics Laboratory 7. CPHY1C05 Seminar I
SEMESTER 2	8. PHY2C06 Quantum mechanics 9. PHY2C07 Mathematical Physics 10. II PHY2C08 Statistical Mechanics 11. PHY2C09 Spectroscopy 12. PHY2P01 Practical I Basic Physics Laboratory 13. PHY2P02 Practical II Computer & Electronics Laboratory 14. CPHY2C05 Seminar I

V. COMPLEMENTARY COURSES (69)

B.Sc. Physics	SEMESTER 1	1. 1C01MAT-PH Mathematics for Physics and Electronics 2. 1C01CHE Chemistry For physical and
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(8 Courses)		Biological Science)
	SEMESTER 2	3. 2C02MAT-PH Mathematics for Physics 4. 2C02CHE Chemistry (For physical and Biological Science)
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical
	SEMESTER 4	7. 4C04 MAT-PH Mathematics for Physics and Electronics 8. 4C04CHE(PS) Chemistry (For Physical Science)
B.Sc. Chemistry (8 Courses)	SEMESTER 1	1. 1C01MAT Mathematics for Chemistry 1 2. 1C01PHY Complementary physics 1- mechanics
	SEMESTER 2	3. 2C02MAT Mathematics for Chemistry II 4. 2C02PHY Electricity Magnetism and Thermal Physics
	SEMESTER 3	5. 3C03MAT Mathematics for Chemistry III 6. 3C03PHY Optics and Photonics
	SEMESTER 4	7. 4C04 MAT Mathematics for Chemistry IV 8. 4C05PHY Physics Practical
B.Sc. Mathematics (8 Courses)	SEMESTER 1	1. 1C01PHY - Mechanics 2. 1C01STA - Basic Statistics
	SEMESTER 2	3. 2C02PHY - Electricity, Magnetism and Thermodynamics 4. 2C02STA - Probability Theory and Random Variables




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	SEMESTER 3	5. 3C03PHY - Optics and Photonics 6. 3C03STA – Standard Distributions
	SEMESTER 4	7. 4C04PHY - Physics Practical 8. 4C04STA - Statistical Inference
B.Sc. Microbiology (12 Courses)	SEMESTER 1	1. 1C 01CHE Chemistry for physical and biological Science 2. 1C 01BTC Environmental Biotechnology
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03CHE Chemistry for physical science 6. 4C 05CHE Practical 7. 3C 03 BTC Plant Biotechnology 8. 4C 05BTC Practical
	SEMESTER 4	9. 4C 04 CHE Chemistry for physical Science 10. 4C 05CHE Practical 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.Sc. Biochemistry (12 Courses)	SEMESTER 1	1. 1C01BTC Environmental Biotechnology 2. 1C01MCB Basic Microbiology I
	SEMESTER 2	3. 2C 02 MCB Basic Microbiology II 4. 2C 02BTC Food biotechnology
	SEMESTER 3	5. 3C 03 MCB Applied Microbiology I 6. 3C 06 MCB Microbiology Practical I 7. 3C 03 BTC Plant Biotechnology 8. 3C 04 MCB Microbiology (Complementary) -



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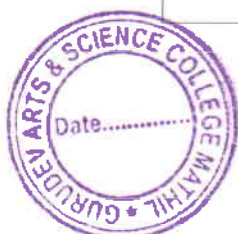


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		Practical I
	SEMESTER 4	9. 4C 05 MCB Applied Microbiology II 10. 4C 06 MCB Microbiology Practical II 11. 4C 04BTC Biotechnology 12. 4C 05BTC Biotechnology Practical
B.A. English (4 Courses)	SEMESTER 1	1. 1C01 JNL Introduction to Mass Communication
	SEMESTER 2	2. 2C02JNL Print Media Journalism
	SEMESTER 3	3. 3C05 POL Basic concept in political science
	SEMESTER 4	4. 4C06 POL Human Rights in India
B.C.A (4 Courses)	SEMESTER 1	1. 1C01MAT Mathematics I for BCA
	SEMESTER 2	2. 2C02MAT Mathematics II for BCA
	SEMESTER 3	3. 3C03MAT Mathematics III for BCA
	SEMESTER 4	4. 4C04MAT Mathematics IV for BCA
B.S.W (4 Courses)	SEMESTER 1	1.1C 01 PSY General Psychology
	SEMESTER 2	2. 2C02 PSY Social Psychology
	SEMESTER 3	3. 3C 03 Principles of Sociology
	SEMESTER 4	4. 4C 04 SOC Sociological Analysis




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B.Com. Co-operation / B.Com. C. A/ B.B.A./B.B.A.T.T.M (7 Courses)	SEMESTER 1	1. 1C01 BBA COM Business Statistics
	SEMESTER 2	2. 2C02 COM Quantitative Techniques for Business Decisions
	SEMESTER 3	3. 3C03 COM Basic Research Methodology 4. 3 C04 COM Business Regulatory Framework 5. 3C04 BBA(TTM) Legal aspects of Business
	SEMESTER 4	6. 4C05COM Corporate Law and Business Regulation 7. 4C05 BBA(TTM) Business Research Methods
<u>B.Sc. Psychology</u>	SEMESTER 1	1. 1C 01 PSY Elements of human physiology
	SEMESTER 2	2. 2C 02 PSY Physiological psychology

VI. OPEN COURSES (10 Courses)

(Only for the Semester 5)

B.Sc. Physics	1. 1.5D01PHY:D.BIOPHYSICS
B.Sc. Chemistry	2. 5D01CHE -Chemistry in Service to Man
B.Sc. Microbiology	3. 5D03MCB Microbes and Environment
B.Sc. Biochemistry	4. 5D01BCH Nutritional Biochemistry



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B.Sc. Mathematics	5. 5D03MAT - Quantitative Arithmetic and Reasoning
B.A. English	6. 5D01(1) ENG English for Competitive Examinations
B.C.A	7. 5D02BCA Web Technology
B.Com. Cooperation & BCom. C. A	8. 5D01COM Basic Accounting
B.B.A.	9. 5D01BBM E Commerce
B.S.W	10. . 5D 01BSW History and Development of Social Work/ Kerala Economy

*Core courses of B.Com. C. A are same to that of B.Com. Co-operation, except 7.

NB: B.Sc. Psychology & M.Sc.Physics are newly introduced in the current year.

TOTAL COURSES: 442




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