



NEHRU ARTS AND SCIENCE COLLEGE

(Autonomous)

Reaccredited by NAAC with 'A' Grade, Certified by ISO 9001:2008 & 14001:2004

Recognized by UGC with 2(f) & 12 B and Affiliated to Bharathiar University

Nehru Gardens, Coimbatore-641 105

Scheme of Examination

B. Sc., Mathematics with Computer Applications

(Applicable to the students admitted during the Academic year 2018-2019 Onwards)

Semester	Part	Course. Code	Name of the Course	Instruction hours / week	Duration of Examination	Examination Marks			Credits
						CIA	ESE	Total	
I	I	18U1TAM101/ 18U1HIN101 / 18U1MAL101/ 18U1FRN101	Language I	5	3	25	75	100	4
I	II	18U2ENG101	English I	5	3	25	75	100	4
I	III	18U3MCC101	Core Paper I Classical Algebra	5	3	25	75	100	4
I	III	18U3MCC102	Core Paper II Calculus	6	3	25	75	100	4
I	III	18U3MCA101	Allied Paper I Statistics for Mathematics - I	6	3	25	75	100	4
I	IV	18U4ENV101	Ability Enhancement Compulsory Course - Environmental Studies	2	3	-	50	50	2
I	IV	18U4HVY101	Human Values and Yoga Practice I	1	-	-	-	-	-
				30				550	22
II	I	18U1TAM202/ 18U1HIN202/ 18U1MAL202/ 18U1FRN202	Language II	5	3	25	75	100	4
II	II	18U2ENG202	English II	5	3	25	75	100	4
II	III	18U3MCC203	Core Paper III Analytical Geometry	6	3	25	75	100	4
II	III	18U3MCC204	Core Paper IV Programming in C	3	3	20	55	75	3
II	III	18U3MCP205	Core Paper V C Programming Practical	2	3	20	30	50	2
II	III	18U3MCA202	Allied Paper II Statistics for Mathematics - II	6	3	25	75	100	4
	IV	18U4HRC202	Ability Enhancement	2	3	-	50	50	2

II			Compulsory Course - Human Rights and Constitution of India						
II	IV	18U4HVY202	Human Values and Yoga Practice I	1	2	25	25	50	2
				30				625	25
III	III	18U3MCC306	Core Paper VI Trigonometry, Vector Calculus & Fourier Series	5	3	25	75	100	4
III	III	18U3MCC307	Core Paper VII Statics	5	3	25	75	100	4
III	III	18U3MCC308	Core Paper VIII Programming in C++	4	3	20	55	75	3
III	III	18U3MCP309	Core Paper IX Programming in C++ Practical	2	3	20	30	50	2
III	III	18U3PYA303	Allied Paper III Physics I	4	3	20	55	75	3
III	III	18U3PYR405	Allied paper V Physics Practical	2	-	-	-	-	-
III	IV	18U4MCZ301	Skill Based Paper I PSPP Practical	3	3	20	55	75	2
III	IV	18U4NM3BT1 / 18U4NM3AT1 / 18U4NM3CAF / 18U4NM3GTS / 18U4NM3WRT	# @Basic Tamil / ##Advanced Tamil / * NME: Consumer Affairs / Gandhian Thoughts / Women's Rights	2	2	50		50	2
III	IV	Extra Departmental Course		2	3	-	50	50	2
III	IV	18U4HVY303	Human Values and Yoga Practice II	1	-	-	-	-	-
III	IV	18U4MCVALC	** Skill Enhancement Add on course - Institute Industry Linkage	-	-	-	-	-	-
				30				575	22
IV	III	18U3MCC410	Core Paper X Differential Equations & Laplace Transforms	5	3	25	75	100	4
IV	III	18U3MCC411	Core Paper XI Dynamics	5	3	25	75	100	4
IV	III	18U3MCC412	Core Paper XII RDBMS and ORACLE	5	3	25	75	100	4
IV	III	18U3MCP413	Core Paper XIII RDBMS and ORACLE- Practical	2	3	20	30	50	2

IV	III	18U3PYA404	Allied Paper IV Physics II	5	3	20	55	75	3
IV	III	18U3PYR405	Allied Paper V Physics Practical	2	3	20	30	50	2
IV	IV	18U4MCS402	Skill based Paper II Quantitative Aptitude	3	3	20	55	75	2
IV	IV	18U4NM4BT2 / 18U4NM4AT2 / 18U4NM4GEN	# @Basic Tamil / ##Advanced Tamil / General Awareness	2	3	50		50	2
IV	IV	18U4HVV404	Human Values and Yoga Practice II	1	2	25	25	50	2
IV	IV	18U4MCVALC	** Skill Enhancement Add on course - Institute Industry Linkage	-	-	-	-	-	Grade
				30				650	25
V	III	18U3MCC514	Core Paper XIV Real Analysis	5	3	25	75	100	4
V	III	18U3MCC515	Core Paper XV Modern Algebra	5	3	25	75	100	4
V	III	18U3MCC516	Core Paper XVI Visual Basic	4	3	25	75	100	4
V	III	18U3MCP517	Core Paper XVII Visual Basic Practical	3	3	20	30	50	2
V	III	18U3MCC518	Core Paper XVIII Discrete Mathematics	5	3	25	75	100	4
V	III	18U3MCE501/ 02/03	Elective Paper I	5	3	25	75	100	4
V	IV	18U4MCS503	Skill based Paper III Operations Research I	3	3	20	55	75	2
				30				625	24
VI	III	18U3MCC619	Core Paper XIX Complex Analysis	6	3	25	75	100	4
VI	III	18U3MCC620	Core Paper XX MATLAB	6	3	25	75	100	4
VI	III	18U3MCP621	Core Paper XXI Programing using SCILAB- Practical	4	3	20	30	50	2
VI	III	18U3MCE604/ 05/06	Elective Paper II	6	3	25	75	100	4
VI	III	18U3MCY607/ E608/E609	Elective Paper III	5	3	25	75	100	4
VI	IV	18U4MCS604	Skill Based Paper IV Operations Research II	3	3	20	55	75	2
VI	V	18U5MC6EXT	Extension Activity	-	-	50	-	50	2
				30				575	22
Total								3600	140
Additional Credit Course (Optional) – Sem: II to V									8^s

Basic Tamil -Students who have not studied Tamil upto 12th standard.

##**Advance Tamil** – Students who have studied Tamil language upto 12th standard and have chosen other languages under part I of the programme but would like to advance their Tamil language skills.

* **NME** – Student shall choose any one course out of three courses.

@ No End Semester Examinations. Only Continuous Internal Assessment (CIA)

\$ Not included in CGPA calculation

** Examination and Evaluation for Add on Course shall be conducted by the Industry and the marks shall be submitted to the CoE section for the award of Grade

List of Discipline Specific Elective Papers

Elective Papers	Course Code	Group	Name of the Course
Elective I	18U3MCE501	A	Digital Electronics and Computer Fundamentals
	18U3MCE502	B	Numerical Methods I
	18U3MCE503	C	Linear Algebra
Elective II	18U3MCE604	A	Web Designing & Java
	18U3MCE605	B	Numerical Methods II
	18U3MCE606	C	Fuzzy Logic and Neural networks
Elective III	18U3MCY607	A	Web Designing & Java - Practical
	18U3MCE608	B	Graph Theory
	18U3MCE609	C	Number Theory

Extra Departmental Course offered by Mathematics Department to other Department Students

S.No.	Semester	Course code	Course Title
1	Semester III	18U4 MC 3ED1	Mathematics for Competitive Examinations
2		18U4 MC 3ED2	Statistics for Competitive Examinations

Additional Credit Course

Earning Additional credit is not mandatory for Course Completion

S. No	Course	Credit	Total credits
1	Completion of Certificate Course	1	1
2	Hindi / other Foreign languages	1	1
3	Self Study Papers	1	2
4	MOOC Courses / Spoken Tutorial prescribed by the Departments	1	3
5	Representation - Sports/Social Activities / Co curricular / Extracurricular Activities at University/ District/ State/ National/ International levels	1	1
Total			8

Rules: The Students can earn additional credits only if they complete the above during the course period (II to V Sem) and based on the following criteria. Proof of completion must be submitted to the Office of Controller of Examinations before the commencement of the VI Semester. (Earning Additional credit course is not mandatory for Course Completion)

1. Students can complete Certification Courses for a minimum of 30 hrs (II to V Sem only) from reputed centres and the same certificate shall be produced to earn a credit. They shall be guided by the Department if needed.
2. Students can opt Hindi/ any Foreign Language approved by Certified Institutions to earn one credit. The certificate of Hindi must be obtained from Dakshin Bharat Hindi Prachar Sabha and He/ She has to enroll and complete during their course period (II to V Sem only)
3. Students can earn one credit, if they complete one Self study Paper prescribed by the Department. The Departments shall offer two Self Study Papers.

Self Study Paper offered by Mathematics Department

S.No.	Semester	Course code	Course Title
1	Semester II to V	18U MC SS01	Reasoning
2		18U MC SS02	Vedic Mathematics

4. Students can earn one Credit, if they complete any one MOOC courses / Spoken Tutorial prescribed by the Department. Students shall earn a maximum of 3 Additional Credits by completing 3 online courses.

List of Online Courses prescribed by Mathematics Department

1. Libreoffice suite - Spoken Tutorial
2. GeoGebra - Spoken Tutorial
3. LaTeX -Spoken Tutorial
4. Introduction to Logic - MOOC
5. College Algebra and Problem solving- MOOC

Note: Other than the above mentioned courses, any course from recognized websites with the consent of the Head of the Department will also be accepted.

5. Award Winners in Sports/Social Activities/ Co curricular/ Extra Curricular Activities at University/ District/ State/ National/ International levels can earn One Extra Credit by producing the Certificate.

Chairman
Board of Studies
Department of Mathematics
Nehru Arts and Science College