



NEHRU ARTS AND SCIENCE COLLEGE

(Autonomous)

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

Recognized by UGC & Affiliated to Bharathiar University

Nehru Gardens, Coimbatore-641 105

Scheme of Examination (II Semester Language)

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

| Semester | Part | Sub. Code | Name of the Subject | 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 |
| | II | 18U2ENG101 | English I | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CKC101 | Core Paper I C Programming | 4 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CKC102 | Core Paper II Digital Fundamentals and Computer Architecture | 4 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSP101 | Core Paper III Practical in C Programming | 4 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3MIA101 | Allied Paper I Mathematical for Computer Science | 5 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4ENV101 | Ability Enhancement Compulsory Course: Environmental Studies | 2 | 3 | - | 50 | 50 | 2 |
| | IV | 18U4HVY201 | Human Excellence – Human Values and Yoga Practice I | 1 | - | - | - | - | - |
| | | | | 30 | | | | 650 | 26 |
| II | I | 18U1TAM202/ 18U1HIN202/ 18U1MAL202/ 18U1FRN202 | Language II | 5 | 3 | 25 | 75 | 100 | 4 |
| | II | 18U2ENG202 | English II | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CKC203 | Core Paper IV C++ Programming | 6 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSP202 | Core Paper V Practical in C++ Programming | 6 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3MIA202 | Allied Paper II Discrete Mathematics | 5 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4HRC202 | Ability Enhancement Compulsory Course: Human Rights and Constitution of India | 2 | 2 | - | 50 | 50 | 2 |
| | IV | 18U4HVY201 | Human Excellence – | 1 | 2 | 25 | 25 | 50 | 2 |

| | | | Human Values and Yoga Practice I | | | | | | |
|-----|-----|--|--|----|---|----|----|-----|-------|
| | | | | 30 | | | | 600 | 24 |
| III | III | 18U3CKC304 | Core Paper VI Data Structures | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CKC305 | Core Paper VII Java Programming | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSP303 | Core Paper VIII Practical in Java Programming | 6 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3MIA303 | Allied Paper III Computer Based Optimization Techniques | 5 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4CKS301 | Skill Based Paper I HTML&CSS Lab | 4 | 3 | 20 | 55 | 75 | 3 |
| | IV | 18U4NM3BT1 / 18U4NM3AT1 / 18U4NM3CAF / 18U4NM3GTS / 18U4NM3WRT | # @Basic Tamil / ##Advanced Tamil / * NME: Consumer Affairs / Gandhian Thoughts / Women's Rights | 2 | 3 | 50 | | 50 | 2 |
| | IV | 18U4CS3ED1/ 18U4CS3ED2 | Extra Departmental Course | 2 | 3 | - | 50 | 50 | 2 |
| | IV | 18U4HVY402 | Human Excellence – Human Values and Yoga Practice II | 1 | - | - | - | - | - |
| | IV | 18U4CSVALC | **Skill Enhancement : Add on course - Institute Industry Linkage | - | - | - | - | - | - |
| | | | | 30 | | | | 575 | 23 |
| IV | III | 18U3CKC406 | Core Paper IX Operating System | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSC404 | Core Paper X RDBMS &MySQL | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSP405 | Core Paper XI Practical in RDBMS &MySQL | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3CSP406 | Core Paper XII Software Engineering | 3 | 3 | 20 | 30 | 50 | 2 |
| | III | 18U3BAA404 | Allied Paper IV Accounting for Cost & Management | 6 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4CSS402 | Skill Based Paper II Practical in JavaScript | 3 | 3 | 20 | 55 | 75 | 3 |
| | IV | 18U4NM4BT2 / 18U4NM4AT2 / 18U4NM4GEN | # @Basic Tamil / ##Advanced Tamil / General Awareness | 2 | 3 | 50 | | 50 | 2 |
| | IV | 18U4HVY402 | Human Excellence – Human Values and Yoga Practice II | 1 | 2 | 25 | 25 | 50 | 2 |
| | IV | 18U4CSVALC | ** Skill Enhancement : Add on course - Institute Industry Linkage | - | - | - | - | - | Grade |
| | | | | 30 | | | | 625 | 25 |
| V | III | 18U3CSC507 | Core Paper XIII Multimedia Techniques | 6 | 3 | 25 | 75 | 100 | 4 |

| | | | | | | | | | |
|--------------|-----|---|---|----|---|----|-----|------|-----|
| | III | 18U3CSP507 | Core Paper XIV Practical in Multimedia | 6 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3CSC509 | Core Paper XV Software Testing | 6 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CKE501/ 18U3CKE502 18U3CKE503/ 18U3CKE504 | Discipline Specific Elective Paper I | 6 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4CSS503 | Skill Based Paper III PHP Programming | 6 | 3 | 20 | 55 | 75 | 3 |
| | III | 18U3CSV510 | Core Paper XVI In-plant Training | - | - | - | 50 | 50 | 2 |
| | | | | 30 | | | | 525 | 21 |
| VI | III | 18U3CSC611 | Core Paper XVII Data Communication & Networks | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSP612 | Core Paper XVIII Practical in Network Lab | 5 | 3 | 40 | 60 | 100 | 4 |
| | III | 18U3CSV613 | Core Paper XIX Project & Viva-Voce | 6 | - | - | 100 | 100 | 4 |
| | III | 18U3CKE605/ 18U3CKE606/ 18U3CKE607/ 18U3CKE608 | Discipline Specific Elective Paper II | 5 | 3 | 25 | 75 | 100 | 4 |
| | III | 18U3CSE609/ 18U3CSE610/ 18U3CSE611 18U3CSE612 | Discipline Specific Elective Paper III | 5 | 3 | 25 | 75 | 100 | 4 |
| | IV | 18U4CSZ604 | Skill Based Paper IV Practical in PHP Programming | 4 | 3 | 30 | 45 | 75 | 3 |
| | V | 18U5CS6EXT | Extension Activity | - | - | 50 | - | 50 | 2 |
| | | | | 30 | | | | 625 | 25 |
| Total | | | | | | | | 3600 | 144 |

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

##**Advance Tamil** – Students who have studied Tamil language up to 12th standard and chosen other languages under part I of the UG 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 Total marks and CGPA Calculation

** Examination and Evaluation for value added course shall be conducted by the Industry and the marks shall be submitted to the Controller of Examination for the award of the degree.

LIST OF DISCIPLINE SPECIFIC

ELECTIVE PAPERS:

| Elective Papers | Course Code | Name of the Course |
|------------------------|--------------------|---|
| Elective Paper I | 18U3CKE501 | e-Commerce |
| | 18U3CKE502 | Compiler Design |
| | 18U3CKE503 | Internet of Things |
| | 18U3CKE504 | Big Data Analytics |
| Elective Paper II | 18U3CKE605 | Software Agent |
| | 18U3CKE606 | Information Security |
| | 18U3CKE607 | Cloud Computing |
| | 18U3CKE608 | Cyber Security |
| Elective Paper III | 18U3CSE609 | Data Mining & Warehousing |
| | 18U3CSE610 | Artificial Intelligence & Expert System |
| | 18U3CSE611 | PC Hardware & Trouble Shooting |
| | 18U3CSE612 | E-Learning |

Extra Departmental Course

| S. No. | Semester | Course Code | Course Title |
|---------------|-----------------|--------------------|-------------------------|
| 1 | III | 18U4CS3ED1 | Multimedia Technologies |
| 2 | | 18U4CS3ED2 | Web Designing |

Additional Credit Course

Earning Additional credit course is not mandatory for Course Completion

Additional credits: 8

| 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 | Massive Open Online Course / Spoken Tutorial prescribed by the Department | 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 Semester) 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 30hrs (II to V Semester) 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 Semester)
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 Department of Computer Science

| S. No. | Semester | Course code | Course Title |
|--------|------------------|-------------|-------------------------------|
| 1 | Semester II to V | 18UCSSS01 | HTML |
| 2 | | 18UCSSS02 | Management Information System |

4. Students can earn one Credit, if they complete any one Massive Open Online Course (MOOC) / Spoken Tutorial prescribed by the Department of Computer Science. Students shall earn a maximum of 3 Additional Credits by completing 3 online courses.

List of Online Courses prescribed by Computer Science Department

- | | | |
|-------------------------------|---|-----------------|
| 1. C (gcc Compiler) | - | Spoken Tutorial |
| 2. C++(gcc Compiler) | - | Spoken Tutorial |
| 3. Blender | - | Spoken Tutorial |
| 4. Libre Office Drawing Tools | - | Spoken Tutorial |
| 5. Libre Office Suite | - | Spoken Tutorial |

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 in Computer Science
Nehru Arts and Science College
Coimbatore