# PERIYAR E.V.R. COLLEGE (AUTONOMOUS)
## TIRUCHIRAPPALLI – 620023

M.Phil. Computer Science (Part Time & Full Time) Programme
(For the candidates admitted from the academic year 2018 – 2019 onwards)

<table>
<thead>
<tr>
<th>1. Part–I</th>
<th>Title of the Course</th>
<th>Marks</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>IA</td>
<td>UA</td>
</tr>
<tr>
<td>Course I</td>
<td>Research Methodology</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>Course II</td>
<td>Advanced Concepts in Computer Science - I</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>Course III</td>
<td>Advanced Concepts in Computer Science - II</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>Course IV</td>
<td>Teaching and Learning Skills</td>
<td>40</td>
<td>60</td>
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<tr>
<th>2. Part–II</th>
<th></th>
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<tbody>
<tr>
<td>Dissertations and Viva – Voce</td>
<td>200</td>
<td>8</td>
<td></td>
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<tr>
<td>(Dissertation)</td>
<td>–</td>
<td>150 Marks</td>
<td></td>
<td></td>
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<tr>
<td>(Viva-Voce)</td>
<td>–</td>
<td>50 Marks</td>
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<tr>
<th>3. For each Course other than the Dissertation</th>
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<tr>
<td>(a) Continuous Internal Assessment (CIA)</td>
<td>–</td>
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</table>

**CIA Components for Course I to IV**

| Tests (2 x 10) | – | 20 Marks |
| Assignment    | – | 10 Marks |
| Seminar       | – | 10 Marks |

| (b) End Term Examination | – | 60 Marks |

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<tr>
<th>4. Question Paper Pattern for Course I to IV</th>
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<tbody>
<tr>
<td>(a) Questions: 5(Either/Or Type) Questions</td>
<td>5 x 12 = 60 Marks</td>
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</tbody>
</table>
Course I – RESEARCH METHODOLOGY

Scope and Objective: To impart the basic concepts on formal languages and Automata, which are required for research and to give knowledge on research types and thesis writing.

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V


References

Course II – ADVANCED CONCEPTS IN COMPUTER SCIENCE – I

Scope and Objective: To impart the knowledge on some of the advance topics in Computer Science such as Formal Languages and Automata, Artificial Intelligence, Biometrics, Distributed Databases and Parallel Processing:

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V

Parallel Processing: Fundamentals of Parallel processing – Multiprocessors and Multicomputers – Multivector and SIMD Computers – MIMD computers or Multiprocessor.

References

Course III – ADVANCED CONCEPTS IN COMPUTER SCIENCE – II

Scope and Objective: To impart the knowledge on some of the advance topics in Computer Science such as Data Mining, Software Metrics, Data Compression, Digital Image Processing and Distributed Systems.

UNIT I

UNIT II

UNIT III

UNIT IV

UNIT V

References

Course IV – TEACHING AND LEARNING SKILLS

UNIT I – Computer Application Skills


UNIT II – Communication Skills


UNIT III – Communication Technology


UNIT IV – Pedagogy

UNIT V – Teaching Skills


References: