

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

**NAAC SSR Cycle IV (2015-2020)** 

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

## PERCENTAGE OF SYLLABUS REVISION 2020 AND LATER



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

## DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION

#### M.Sc. COMPUTER SCIENCE

#### **JUNE 2020 AND LATER**

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

## DEPARTMENT OF COMPUTER SCIENCE M.Sc COMPUTER SCIENCE – PROGRAMME CODE: MDCS

(For those who have joined in June 2020 and later)

Total Number of Courses having changes : 6

Total Number of Courses : 22

Percentage of Revision : 27

Signature of the HOD with Seal

St. Len Rt.

A.LEENA BENITA M.C.A., M.Phil., Mead, Dept. of Computer Science, S.F.R.College for Women, SIVAKASI - 626 123,



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

# DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.SC. COMPUTER SCIENCE JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

#### DEPARTMENT OF COMPTER SCIENCE

M.Sc. COMPUTER SCIENCE -ALLOTMENT OF HOURS AND CREDITS

(For those who have joined in June 2020 and later)

|                     |         |         | Semester       |         |                  |
|---------------------|---------|---------|----------------|---------|------------------|
| Subject             | 1       | 11      | m              | IV      | Total<br>Credits |
| Core Courses        |         |         |                |         |                  |
| Paper I             | 4 (4)   | 4 (4)   | 4 (4)          | -       |                  |
| Paper II            | 4 (4)   | 4 (4)   | 4 (3)          |         |                  |
| Paper III           | 4 (3)   | 4 (3)   | 3 (3)          | -       |                  |
| Paper IV            | 3 (3)   | 3 (3)   | -              | -       | 55               |
| Practical I         | 5 (3)   | 5 (3)   | 4 (3)          | -       |                  |
| Practical II        | 4 (3)   | 4 (3)   | 4 (2)          | -       |                  |
| Project             | -       | -       | -              | 30 (15) | 15               |
| Elective<br>Courses | 6 (5)   | 6 (5)   | 6 (5)<br>5 (5) | -       | 20               |
| Total               | 30 (25) | 30 (25) | 30 (25)        | 30 (15) | 90               |

SIGNATURE OF THE HOD

A I.EENA BENITA M.C.A., M.Phil. Head, Dept. of Computer Science, S.F.R.College for Women, SIVAKASI - 626 123, T-Palanes-

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# DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.SC. COMPUTER SCIENCE JUNE 2020 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS)

SIVAKASI.

#### DEPARTMENT OF COMPUTER SCIENCE

M.Sc. COMPUTER SCIENCE

(For those who have joined in June 2020 and later)

## OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM

PROGRAMME CODE – MDCS PROGRAMME SCHEME

| Se             |                         |   |  | Tooghin      |          | Duration | M  | arks Allotte | d   |
|----------------|-------------------------|---|--|--------------|----------|----------|----|--------------|-----|
| m<br>est<br>er | Course<br>Code          | Course Title  | Chitecture 4 4 3 40  ares 4 3 3 40  Anagement 3 3 3 40  C++ Lab 5 3 3 50  4 3 3 50  Total 30 25  Total 4 4 3 40  amming 4 4 3 40 | Intern<br>al | External | Total    |    |              |     |
|                | MDCS11                  | Core Courses<br>Computer System Architect                 | ture   | 4            | 4        | 3        | 40 | 60           | 100 |
|                | MDCS12                  | Discrete Structures                                       |  | 4            | 4        | 3        | 40 | 60           | 100 |
|                | MDCS13                  | C++ and Data Structures                                   |  | 4            | 3        | 3        | 40 | 60           | 100 |
|                | MDCS14                  | Advanced Database Manag<br>System                         | ement  | 3            | 3        | 3        | 40 | 60           | 100 |
| I              | MDCS1L1                 | Data Structures using C++                                 | Lab  | 5            | 3        | 3        | 50 | 50           | 100 |
|                | MDCS1L2                 | DBMS Lab  |  | 4            | 3        | 3        | 50 | 50           | 100 |
|                | MDCS1E1<br>/<br>MDCS1E2 | Elective Course Internet of Things/ Graphics & Multimedia |  | 6            | 5        | 3        | 40 | 60           | 100 |
|                |                         |   | Total  | 30           | 25       |          |    |              | 700 |
|                | MDCS21                  | Core Courses Operating Systems                            |  | 4            | 4        | 3        | 40 | 60           | 100 |
|                | MDCS22                  | Advanced Java Programmin                                  | ng   | 4            | 4        | 3        | 40 | 60           | 100 |
| **             | MDCS23                  | Digital Image Processing                                  |  | 4            | 3        | 3        | 40 | 60           | 100 |
| II             | MDCS24                  | Cloud Computing   |  | 3            | 3        | 3        | 40 | 60           | 100 |
|                | MDCS2L1                 | Advanced Java Programmin                                  | ng Lab   | 5            | 3        | 3        | 50 | 50           | 100 |
|                | MDCS2L2                 | Image Processing Lab                                      |  | 4            | 3        | 3        | 50 | 50           | 100 |



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## DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.SC. COMPUTER SCIENCE

#### **JUNE 2020 AND LATER**

|       | MD2E                    | Elective Course   |       | 6  | 5  | 3 | 40 | 60  | 100 |
|-------|-------------------------|---|-------|----|----|---|----|-----|-----|
|       |                         | -   | Fotal | 30 | 25 |   |    |     | 700 |
|       | MDCS31                  | Core Courses Python for Data Analysis                                 |       | 4  | 4  | 3 | 40 | 60  | 100 |
|       | MDCS32                  | Android Application Development                                       |       | 4  | 3  | 3 | 40 | 60  | 100 |
|       | MDCS33                  | Software Testing and Quality Assurance                                | 3     | 3  | 3  | 3 | 40 | 60  | 100 |
|       | MDCS3L1                 | Python Programming Lab  |       | 4  | 3  | 3 | 50 | 50  | 100 |
| III   | MDCS3L2                 | Android Application Development Lab                                   |       | 4  | 2  | 3 | 50 | 50  | 100 |
|       | MDCS3E1<br>/<br>MDCS3E2 | Elective Courses Data Mining and Warehousin Advanced Computer Network |       | 6  | 5  | 3 | 40 | 60  | 100 |
|       | MDCS3E3<br>/<br>MDCS3E4 | Principles of Compiler Desig<br>Soft Computing                        | n/    | 5  | 5  | 3 | 40 | 60  | 100 |
|       |                         | То  | tal   | 30 | 25 |   |    |     | 700 |
| Study | tour / Field visi       | t mandatory   |       |    |    |   |    |     |     |
| IV    | MDCS4P                  | Major Project Work and Viva<br>Voce                                   | ı     | -  | 15 |   | -  | 100 | 100 |
|       |                         | T   | otal  |    | 15 |   |    |     | 100 |

Elective Course offered to other Major students

| Se         | me Course Course Title | Teaching            |                | Duration | Marks Allotted |          |          |       |
|------------|------------------------|---------------------|----------------|----------|----------------|----------|----------|-------|
| me<br>ster |                        | Course Title        | Hours/<br>Week | Credits  |                | Internal | External | Total |
| II         | MDCS2E                 | Electronic Commerce | 6              | 5        | 3              | 40       | 60       | 100   |

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## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Siyakasi

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**NAAC SSR Cycle IV (2015-2020)** 

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

## PERCENTAGE OF SYLLABUS REVISION 2017 AND LATER



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## DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION

#### M.Sc. COMPUTER SCIENCE

#### **JUNE 2017 AND LATER**

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

## DEPARTMENT OF COMPUTER SCIENCE M.Sc COMPUTER SCIENCE - PROGRAMME CODE: HLCS

(For those who have joined in June 2017 and later)

Total Number of Courses having changes 3

Total Number of Elective Courses having changes: 3

Total Number of Courses 22

Percentage of Revision 27

> & Leeva Berili Signature of the HOD with Seal

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## DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.Sc. COMPUTER SCIENCE

## JUNE 2017 AND LATER

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI.

#### M.Sc. COMPUTER SCIENCE

#### ALLOTMENT OF CREDITS AND HOURS

(For those joined in June 2017and later)

|              |         | ,       | Semester       |         |                  |
|--------------|---------|---------|----------------|---------|------------------|
| Subject      | I       | 11      | m              | IV      | Total<br>Credits |
| Core Courses |         |         |                |         | 1                |
| Paper I      | 4 (4)   | 4 (4)   | 4 (4)          | -       |                  |
| Paper II     | 4 (4)   | 4 (4)   | 4 (3)          | -       |                  |
| Paper III    | 4 (3)   | 4 (3)   | 3 (3)          | -       |                  |
| Paper IV     | 3 (3)   | 3 (3)   | -              | -       | 55               |
| Practical I  | 5 (3)   | 5 (3)   | 4 (3)          | -       |                  |
| Practical II | 4 (3)   | 4 (3)   | . 4(2)         | -       |                  |
| Project      | 1-      | -       | -              | 30 (15) | 15               |
| Elective     | 6 (5)   | 6 (5)   | 6 (5)<br>5 (5) | -       | 20               |
| Total        | 30 (25) | 30 (25) | 30 (25)        | 30 (15) | 90               |

SIGNATURE OF THE HOD

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# DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.Sc. COMPUTER SCIENCE JUNE 2017 AND LATER

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS) SIVAKASI.

## DEPARTMENT OF COMPUTER SCIENCE M.Sc. Computer Science PROGRAMME

(For those who have joined in June 2017 and later)

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM

PROGRAMME CODE – HLCS PROGRAMME SCHEME

|     |                     |   | Teaching       | Credit | Duration         | Ma           | rks Allott   | ed    |
|-----|---------------------|---|----------------|--------|------------------|--------------|--------------|-------|
| Sem | Course<br>Code      | Course Title  | Hours/<br>Week | s      | of Exam<br>(hrs) | Intern<br>al | Exter<br>nal | Total |
|     | HLCS11              | Core Courses Computer Organization                                  | 4              | 4      | 3                | 25           | 75           | 100   |
|     | HLCS12              | Discrete Structures   | 4              | 4      | 3                | 25           | 75           | 100   |
| I   | HLCS13              | Data Structures and<br>Algorithms                                   | 4              | 3      | 3                | 25           | 75           | 100   |
|     | HLCS14              | Object Oriented Programming with C++                                | 3              | 3      | 3                | 25           | 75           | 100   |
|     | HLCS1L1             | Data Structures and<br>Algorithms Lab                               | 5              | 3      | 3                | 40           | 60           | 100   |
|     | HLCS1L2             | C++ Programming Lab   | 4              | 3      | 3                | 40           | 60           | 100   |
|     | HLCS1E1/<br>HLCS1E2 | Elective Course Graphics & Multimedia / Data Mining and Warehousing | 6              | 5      | 3                | 25           | 75           | 100   |
|     |                     | TOTAL   | 30             | 25     |                  |              |              | 700   |
|     | HLCS21              | Core Courses<br>Operating Systems                                   | 4              | 4      | 3                | 25           | 75           | 100   |
|     | HLCS22              | Java Programming  | 4              | 4      | 3                | 25           | 75           | 100   |
|     | HLCS23              | Database Management System  | 4              | 3      | 3                | 25           | 75           | 100   |
|     | HLCS24              | Computer Networks   | 3              | 3      | 3                | 25           | 75           | 100   |
| II  | HLCS2L1             | Java Programming Lab  | 5              | 3      | 3                | 40           | 60           | 100   |



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# DEPARTMENT OF COMPUTER SCIENCE PERCENTAGE OF SYLLABUS REVISION M.Sc. COMPUTER SCIENCE JUNE 2017 AND LATER

|     | HLCS2L2             | DBMS Lab   | 4  | 3  | 3 | 40 | 60  | 100 |
|-----|---------------------|--|----|----|---|----|-----|-----|
|     | HLCS2E              | Elective Course  | 6  | 5  | 3 | 25 | 75  | 100 |
|     |                     | TOTAL  | 30 | 25 |   |    |     | 700 |
|     | HLCS31              | Core Courses DotNET Programming  | 4  | 4  | 3 | 25 | 75  | 100 |
|     | HLCS32              | Android Application Development  | 4  | 3  | 3 | 25 | 75  | 100 |
|     | HLCS33              | Principles of Compiler Design  | 3  | 3  | 3 | 25 | 75  | 100 |
|     | HLCS3L1             | DotNET Programming Lab   | 4  | 3  | 3 | 40 | 60  | 100 |
| III | HLCS3L2             | Android Application<br>Development Lab   | 4  | 2  | 3 | 40 | 60  | 100 |
| a   | HLCS3E1/<br>HLCS3E2 | Elective Courses UGC NET Propagatory Course - Computer Science/ Digital Image Processing | 6  | 5  | 3 | 25 | 75  | 100 |
|     | HLCS3E3/<br>HLCS3E4 | Software Engineering /<br>Soft Computing   | 5  | 5  | 3 | 25 | 75  | 100 |
|     |                     | TOTAL  | 30 | 25 |   |    |     | 700 |
| IV  | HLCS4P              | Major Project work and Viva<br>Voce  | -  | 15 | - | -  | 100 | 100 |

Elective Course offered to other Major students

| 6.         | Se me Course Course | Torontino           |                            | Duration | Marks Allotted   |          |          |       |
|------------|---------------------|---------------------|----------------------------|----------|------------------|----------|----------|-------|
| me<br>ster | Course<br>Code      | Course Title        | Teaching<br>Hours/<br>Week | Credits  | of Exam<br>(hrs) | Internal | External | Total |
| II         | HLCS2E              | Electronic Commerce | 6                          | 5        | 3                | 25       | 75       | 100   |

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## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

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NAAC SSR Cycle IV (2015-2020)

1.1. CURRICULUM DESIGN AND DEVELOPMENT

1.1.2. REVISION OF SYLLABUS

## PERCENTAGE OF SYLLABUS REVISION 2016 AND LATER



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#### DEPARTMENT OF COMPUTERSCIENCE

#### M.Sc. COMPUTER SCIENCE

#### NEW PROGRAMME INTRODUCED

#### **JUNE 2016ANDLATER**

## THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

## DEPARTMENT OF COMPUTER SCIENCE

M.Sc COMPUTER SCIENCE - PROGRAMME CODE: 16PCS

(For those who have joined in June 2016 and later)

Total Number of Courses having changes : 22

Total Number of Courses : 22

Percentage of Revision : 100

Signature of the HOD with Seal

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## DEPARTMENT OF COMPUTER SCIENCE

#### M.Sc. COMPUTER SCIENCE

## **NEW PROGRAMME INTRODUCED**

#### **JUNE 2016 AND LATER**

#### THE STANDARDFIREWORKSRAJARATNAMCOLLEGE FOR WOMEN, SIVAKASI.

#### M.SC COMPUTER SCIENCE

#### ALLOTMENT OF CREDITS AND HOURS (For those joined in June 2016 and later)

|                       |         |         | Semester  |              |                  |
|-----------------------|---------|---------|-----------|--------------|------------------|
| Subject               | I       | п       | ш         | IV           | Total<br>Credits |
| Core Courses          |         |         |           |              |                  |
| Paper I               | 4 (4)   | 4 (4)   | 4 (4)     | -            |                  |
| Paper II              | 4 (4)   | 4 (4)   | 4 (4)     | -            |                  |
| Paper III             | 4 (4)   | 4 (4)   | 3 (3)     | <u>-</u>     |                  |
| Paper IV              | 3 (3)   | 3 (3)   | -         |              | 55               |
| Practical I           | 5 (3)   | 5 (3)   | 4 (2)     | -            |                  |
| Practical II          | 4 (2)   | 4 (2)   | 4 (2)     | -            |                  |
| Project               | -       | 35 -    | -         | 30 (15)      | 15               |
|                       |         |         | Te        | otal Credits | 70               |
| Elective Courses      |         |         |           |              |                  |
| Core Elective         | 6 (5)   |         | 5 (5)     | -            | 20               |
| Non Major<br>Elective |         | 6 (5)   | 6 (5)     | -            | 20               |
| Total                 | 30 (25) | 30 (25) | . 30 (25) | 30 (15)      | 90               |

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## DEPARTMENT OF COMPUTER SCIENCE

## M.Sc. COMPUTER SCIENCE

## NEW PROGRAMME INTRODUCED

#### **JUNE 2016 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN

(AUTONOMOUS)SIVAKASI.

## DEPARTMENT OF COMPUTER SCIENCE

M.Sc. COMPUTER SCIENCEPROGRAMME

(For those who have joined in June 2016 and later)

OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – 16PCS PROGRAMME SCHEME

| I 3 |                       |  | Teaching       | Credit | Duration         | Ma           | rks Allott   | ed    |
|-----|-----------------------|--|----------------|--------|------------------|--------------|--------------|-------|
| Sem | Course<br>Code        | Course Title   | Hours/<br>Week | s      | of Exam<br>(hrs) | Intern<br>al | Exter<br>nal | Total |
|     | 16PCS11               | Core Courses Computer Organization                                       | 4              | 4      | 3                | 25           | 75           | 100   |
|     | 16PCS12               | Discrete Structures  | 4              | 4      | 3                | 25           | 75           | 100   |
| I   | 16PCS13               | Data Structures & Algorithms   | 4              | 4      | 3                | 25           | 75           | 100   |
|     | 16PCS14               | Object Oriented Programming  | ·3             | 3      | 3                | 25           | 75           | 100   |
|     | 16PCS1L1              | Data Structures & Algorithms<br>Lab                                      | 5              | 3      | 3                | 40           | 60           | 100   |
|     | 16PCS1L2              | C++ Programming Lab  | 4              | 2      | 3                | 40           | 60           | 100   |
|     | 16PCS1E1/<br>16PCS1E2 | Elective Course<br>Graphics & Multimedia /Data<br>Mining and Warehousing | 6              | 5      | 3                | 25           | 75           | 100   |
|     |                       | TOTAL  | 30             | 25     |                  |              |              | 700   |
|     | 16PCS21               | Core Courses Operating Systems   | -4             | 4      | 3                | 25           | 75           | 100   |
|     | 16PCS22               | Internet Programming   | 4              | 4      | 3                | 25           | 75           | 100   |
|     | 16PCS23               | Database Management System   | 4              | 4      | 3                | 25           | 75           | 100   |
|     | 16PCS24               | Advanced Computer Networks   | 3              | 3      | 3                | 25           | 75           | 100   |
| II  | 16PCS2L1              | Internet Programming Lab   | 5              | 3      | 3                | 40           | 60           | 100   |



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## DEPARTMENT OF COMPUTER SCIENCE

## M.Sc. COMPUTER SCIENCE

## **NEW PROGRAMME INTRODUCED**

#### **JUNE 2016 AND LATER**

|     | 16PCS2L2              | DBMS Lab  | 4  | 2  | 3 | 40 | 60  | 100 |
|-----|-----------------------|---|----|----|---|----|-----|-----|
|     | 16PCS2E               | Elective Course                                       | 6  | 5  | 3 | 25 | 75  | 100 |
|     |                       | TOTAL   | 30 | 25 |   |    |     | 700 |
|     | 16PCS31               | Core Courses 3D Modeling & Animation                  | 4  | 4  | 3 | 25 | 75  | 100 |
|     | 16PCS32               | .NET Programming                                      | 4  | 4  | 3 | 25 | 75  | 100 |
|     | 16PCS33               | Principles of Compiler Design                         | 3  | 3  | 3 | 25 | 75  | 100 |
|     | 16PCS3L1              | 3D Modeling & Animation<br>Lab                        | 4  | 2  | 3 | 40 | 60  | 100 |
| III | 16PCS3L2              | .NET Programming Lab                                  | 4  | 2  | 3 | 40 | 60  | 100 |
|     | 16PCS3E1              | Elective Courses  UGC Net Prelims - Computer Science  | 6  | 5  | 3 | 25 | 75  | 100 |
|     | 16PCS3E2/<br>16PCS3E3 | Object Oriented Analysis &<br>Design / Soft Computing | -5 | 5  | 3 | 25 | 75  | 100 |
|     |                       | TOTAL   | 30 | 25 |   |    |     | 700 |
| IV  | 16PCS4P               | Major Project work and Viva<br>Voce                   | -  | 15 | _ | -  | 100 | 100 |

Elective Course offered to other Major students

| Se         | ne Course Course Title | Teaching                    |                | Duration | Marks Allotted   |          |          |       |
|------------|------------------------|-----------------------------|----------------|----------|------------------|----------|----------|-------|
| me<br>ster |                        | Course Title                | Hours/<br>Week | Credits  | of Exam<br>(hrs) | Internal | External | Total |
| II         | 16PCS2E                | Internet & its Applications | 6              | 5        | 3                | 25       | 75       | 100   |

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